FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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No. 2255.-Vol. XLVIII.

LONDON, SATURDAY, NOVEMBER 9, 1878.

SUPPLEMENT. PER ANNUM, BY POST, 21 44.

MR. JAMES H. CROFTS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER, No 1 FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842. Business transacted in all descriptions of Mining Stocks and Shares (British

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SPRCIAL DEALINGS in the following, or part;—

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25 Hultafail, £3½.

26 Chapel House, £3½.

26 Chapel House, £3½.

27 Colorado, £3 3s. 9d.

28 Fanty-Mayun.

28 Fanty-Mayun.

29 Fanty-Mayun.

26 Penstruthai, 4s. 3d.

29 Tenstruthai, 4s. 3d.

29 Fenty-Mayun.

29 Fenty-Mayun.

20 Fenty-Mayun.

21 Tankerville, £3½.

22 Fenty-Mayun.

23 Fenty-Mayun.

25 Panty-Mayun.

26 Penstruthai, 4s. 3d.

26 Penstruthai, 4s. 3d.

27 Tankerville, £3½.

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SPECIAL BUSINESS. Fortnightly Accounts opened on receipt of
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MISCELLANEOUS, Royal Aquar. (Westm.)
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Accounts opened for the Fortnightly Settlement.

A Stock and Share List free on application. BUMPUS has SPECIAL BUSINESS in the undermentioned: erdaunant. ue Tent, £2¼, rdseye Creek, 16s.

ndermentioned:—
70 Port Phillip, 10s. 6d.
100 Pandora, 10s.
50 Parys Mount., 5s. 6d.
10 Roman Grav., £6½.
15 Richmond. £10 1s. 3d
50 Sierra Butes.
20 Tankerville, £3 3s. 9d
5 Van, £15½.
10 Wheal Peevor, £6½.
2 West Tolgas, £40½.
30 Wh. Grenville, £23½
26 Wye Valley. rdaunant. 50 Hagstaff, 92. 25 Frontino, 22%. 26 Frontino, 22%. 27 Frontino, 22%. 27 Frontino, 22%. 28 Frontino, 22%. 28 Frontino, 22%. 29 Hagstaff, 92. 29 Hagstaff, 92. 29 Hagstaff, 92 Ha Carn Brea. Chontales, 11s. 9d. Dedar Creek, 4s. 6d. Dape Copper, £28%. Colorado, £2 6s. Don Pedro, 9s. 6d. East Van, £2. Derhardt, £3 1s.

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50 Javali, 7s.
50 Javali, 7s.
50 Javali, 7s.
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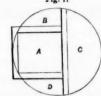
Lectures on Bractical Mining in Germany

CLAUSTHAL MINING SCHOOL NOTES.*-No. XCV. BY J. CLARK JEFFERSON, A.R.S.M., WH. SC.,

Mining Engineer, Wakefield. (Formerly Student at the Royal Bergakademie, Clausthal). [The Author reserves the right of reproduction.]

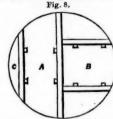
SECTION V.

The following are examples of circular shafts. Fig. 7 represents

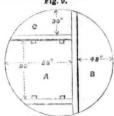


the shaft at the Dahlbuchse Colliery, near Gelsenkirchen, sunk by the method of Kind and Chaudron, The shaft is 11 ft. 2 in. (3:505 the method of Kind and Chaudron, The shaft is 11 ft. 2 in. (3.505 metres) in diameter. A is the winding shaft, B is the travelling shaft, C the pumping shaft, and D the ventilating shaft.

Fig. 8 the plan of the winding shaft of the Monkwearmouth Fig. 8.



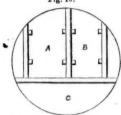
Colliery, near Sunderland. The diameter near the mouth of the shaft is 11 ft. 8 in., and enlarges to 13 ft. 6 in. below. A and B show the two winding partitions, and C was formerly used as the pump ing shaft; it is now used as a rope shaft for an underground haulage rope, worked by an engine at the surface. Fig. 9 is the plan of the shaft of the Hibernia Colliery, near to



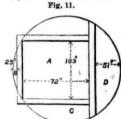
Gelsenkirchen, in Westphalia. The shaft is 11 ft. 8 in. in diameter Gelsenkirchen, in Westpania.

A is the winding compartment, B the pumping compartment, and C the travelling shaft.

Fig. 10 is a plan of the Ferry Hill Colliery, near Durham. A and

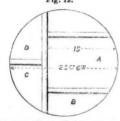


B are the winding divisions, and C the pumping shaft. Fig. 11 represents a plan of the Shamrock Colliery, near Herne,



in Westphalia, which is 12 ft. 8 in. in diameter. A is the winding shaft, B is the travelling shaft, C the ventilating shaft, and D the

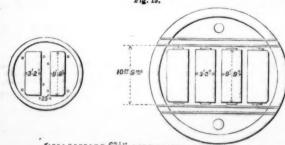
Fig. 12 also represents one of the shafts near Herne, in which A Fig. 12.



is the winding, B the travelling, C the pumping, and D the venti-

lating shaft.

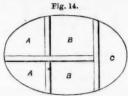
Fig. 13 represents the arrangements of the shafts at the state



coal mines, King's Colliery and Queen Luise's Colliery, in Upper Silesia. At the latter colliery the shafts are placed 62½ ft. apart. The two shafts are respectively 17 ft. 6 in. and 13 ft. in diameter.

The latter serves not only as winding but also as upcast shaft, so that in this shaft the conductors consist of wire ropes. The arrangement shown in the smaller shaft is very common in some parts of England. The large winding shaft is arranged with conductors of T-iron for four cages. The bearers for carrying the conductors serve also as support for the 18-in. pump sets (a), the water being raised by engines underground, so that there are no rods in the shaft.

Fig. 14 represents the plan of the Abercarne shaft, South Wales.



The shaft is elliptical, the longer diameter being 22 ft. long and the shorter 16 ft. long. A pumping department. A and B are winding divisions, and C is the

The shaft is elliptical, the longer diameter being 22 ft. long and the shorter 16 ft. long. A and B are winding divisions, and C is the pumping department.

THE WALLING OF SHAFTS.

The walling of a shaft becomes necessary either for the purpose of keeping back loose portions of the ground which would otherwise be liable to fall down the shaft, and where the ground is greatly affected by the weathering action of the atmosphere to prevent the formation of large empty spaces, which would allow of so great a falling in from the sides as to endanger the safety of the shaft. In other cases, especially where the shaft is deep, the chief purpose of the walling is to give a support against the great pressure of the sides. Metalliferous mines usually have the shafts kept open by means of timbering. Where the shaft will probably have to be kept good for a very great length of time, and where the cost of renewal of timber is excessive, it may become advisable to resort to walling, even in the inclined rectangular shafts of metalliferous mines. The descriptions of walling vary somewhat according to the angle of the dip: where the inclination of the shaft does not deviate more than from 5' to 10' from the vertical the methods to be later described for vertical rectangular shafts may be adopted. According to local circumstances, it may be required to wall the shaft on one, or more, or all four sides. Where only two sides require walling this will in general be effected by building two vertical side walls. The object of walling the two sides in metalliferous mines may be either to keep the hanging and lying walls apart in the neighbourhood of the shaft, or to support the vein, or where the lode is not worked in the vicinity of the shaft there will be no need for a side wall for either of the above purposes. Towards the upper part of the lode, where it has been subjected to the weathering action of the shaft, and the footing for the wall winer a level enters the shaft may, therefore, have to oppose either a thrust in the direct vex, or the wall itself may be altogether curved in the same way. The masonry used in rectangular shafts is seldom carried uniformly over the whole depth of the shaft, but is put in in section where over the whole depth of the shaft, but is put in in section where needed. When the height or depth of the side walls is considerable, and especially where the dip of the lode is nearly vertical, a great weight is thrown on the lower part. To relieve the lower part of this pressure, and to distribute the pressure more equally over the whole length of the walling, arches are built in the wall at regular intervals, and being footed into the sides, the weight of the wall above the arch is not transmitted to the portion of the wall help who arch. wall below the arch.

wall below the arch.

When the hanging wall of the lode requires lining this may be effected in two ways. Where the side pressure is inconsiderable, and the chief weight to be supported acts in a vertical direction downwards, the hanging wall may be supported by a series of vertical arches, footed into the two short sides, a cross section of the tical arches, footed into the two short sides, a cross section of the shaft, shearing the arches in a stepwise arrangement, and a longitudinal section will show a series of arches placed one above the other at equal distances apart. Where the side pressure (i.e., of the hanging wall) is considerable the walling would consist of a plane arched wall, the rise of the arch being 1½ in. to 2 in. per foot of span. The arch is seldom made semicircular, generally of the above curvature. Sometimes the arch lining of the hanging wall is still further supported by a centre wall, dividing the shaft into two partitions. Such a centre wall is supported by building arches in the walling, the chord of the arc of the arch being placed approximately at right angles to the general inclination of the shaft, often in a slightly more vertical position.

The walling of Vertical shafts is effected in two ways. When the ground in which a pit has been suck is of such a character that

in a slightly more vertical position.

The walling of Vertical shafts is effected in two ways. When the ground in which a pit has been sunk is of such a character that it will stand good without any, or but a slight temporary wooden lining until the shaft has been sunk to the bed it was intended to reach, then the walling of the shaft is delayed until the completion of the sinking of the shaft, when the wall is built up from (and commencing at) the bottom. The second mode is used where the character of the ground and the consequent pressure on any temporary timber lining is such that the probability is that the ground will break through the timber, or that the water would be liable to wash and loosen large portions of the sides of the shaft if left otherwise unprotected during the whole time of sinking the shaft. The object of this second method is to secure the sides as soon as convenient or necessary after being exposed by the sinking of the shaft. This method consists in sinking the shaft to the depth which it is considered advisable to advance before it becomes necessary to line the shaft, and then to build the shaft lining up to the surface or to the bottom of the last completed set of walling, the shaft being lined (in general) by building the wall downwards—first the surface portion and afterwards the others, each set of lining, however, being built upwards in detail. The first method we shall call the lining of the shaft from the bottom upwards, or upward walling, and the latter the sectional walling from above downwards.

1° Upward Walling.—When the nature of the ground in which a pit is being sunk is such that the sides will stand good with but little or no timbering, the walling may be carried from the bottom the bottom.

a pit is being sunk is such that the sides will stand good with but little or no timbering, the walling may be carried from the bottom to the surface in one operation. The first care after such a shaft has been sunk, or during the sinking, will be to choose strata sufficiently strong and compact to serve for a foundation for the walling. When strong rock has been reached the shaft, if not sufficiently deep in this compact rock will be sunk several words further and a suitable strong and compact to serve for a foundation for the waining, when strong rock has been reached the shaft, if not sufficiently deep in this compact rock, will be sunk several yards further, and a suitable ledge or foundation for the wall will then be carefully cut in the rock by means of a pick, or hammer and chisel. This ledge must be made sufficiently broad for the foot of the wall, which is in general at least twice as thick as the ordinary thickness of the lining. Since the whole weight of the wall comes upon the foot, this must be of a suitable form and strength. In Westphalia considerable attention has been paid to the form of the wall foot. The most usual form is that of a double truncated cone; the diameter of the outside of the foot at the truncated ends equals the outside diameter of the brick lining; sometimes the outside diameter of the brick lining; sometimes the outside diameter of the foot at the widest part exceeds the diameter of the outside of the shaft lining by twice the thickness of the lining. The generating angle of the upper cone is much more acute than that of the lower cone—i.e., the length of the upper part of the foot (down to the level where the outside diameter is greatest) is from five to six times greater

than the length of the lower part (from the level where the outside diameter of the foot is greatest down to the dressed surface of the rock forming the foundation). For a shaft 15 ft. in diameter, assuming the thickness of the lining at 1 ft.—the exterior diameter of the lining as 17 ft., the outside diameter of the foot where it is strongest as 19 ft.—the above relative lengths of the upper and lower portions of the foot would be about 10 ft, and 18 in,

THE UNIVERSITY OF ADELAIDE.

Although in comparatively young and newly-settled countries but little inconvenience may at first be felt by those of naturally refined tastes and superior attainments, owing to the novelties and excitement by which they are surrounded, and the readiness with which the absolute necessities of life are obtainable, the time soon comes when the brighter intellects yearn for the opportunity of associating and exchanging ideas with others of similar feelings, and when parents begin to dread the thought that their offspring should grow up without those softening influences of that higher education which would be regarded as indispensable to their social position in older States. Great as may be the exertions and the ability of private instructors who may be at the disposal of the colonists, they cannot remove the necessity for systematic effort, such as is secured by the college and university, so that the provision by such colonists of facilities for the acquisition of complete academical training in their midst cannot but be regarded as an evidence of substantial progress, and of the desire that their ad pred home should at a future time occupy an honourable place amongst the nations of the world. With regard to Australia, reference has already been made in the Mining Journal to the Universities of Melbourne and Sydney; and it is gratifying to find that the University of Adelaide has now reached a stage when some opinion may be formed of its probable future and of the character of its teaching. The unparalleled success which marked the progress of the university of a sister colony not unnaturally led those interested in the establishment of the University of Adelaide to adopt a similar course of procedure, and so far equal success appears to have been achieved. The University of Adelaide was incorporated and endowed by Act so the Colonial Legislature in 1874, so that the calendar for the present year is the first which admits of a fair estimate being formed as towhat has been done. The university is a teaching univ

personal interest in its welfare than could have been noped for had the management of the university been entrusted to meraly menial professors and examiners whose connection with the corporation would terminate upon their ceasing to hold office, and it was added that the same provise enabled the corporation to enlist the sympathy of all the more energetic university men connected with the colony by offering them corresponding rank, the result being that the university quickly became the centre of learning and polits series for by one ring them corresponding rank, the result being that the university quickly became the centre of learning and polite society for the colony, as much as are Oxford, Cambridge, and Dublin in the Mother Country—a position which it is likely long to enjoy to the mutual advantage of the colony, of the university, and of the graduates who have become identified with it by incorporation under this section, and who in turn reflect a lustre on the university which is most advantageous thereto. It would be unreasonable to expect that a university but four years ald could occurve a similar position.

is most advantageous thereto. It would be unreasonable to expect that a university but four years old could occupy a similar position; but to judge from the manner in which its affairs have hitherto been conducted it will speedily attain a no less enviable rank. With regard to the endowment of the University of Adelaids, it appears to be ample, with such voluntary endowments and bequests as may reasonably be expected hereafter to ensure success. Mr. Walter Watson Hughes, of Torrens Park, near Adelaide, may be regarded as the real founder of the university, for it was he who nearly two years before the Legislative Act establishing the university was obtained signed an indenture, giving the handsome sum of 20,000. garded as the real founder of the university, for it was he who nearly two years before the Legislative Act establishing the university was obtained signed an indenture, giving the handsome sum of 20,000. to endow two chairs—the one of Classical and Comparative Philology and Literature, and the other for English Language and Literature, and Mental and Moral Philosophy. Indeed, it was Mr. Hughes noble contribution that encouraged the Legislature to pass the Act of incorporation and endowment. The Governor of the Province is authorised to convey to the university the fee simple of 50,000 acres of waste lands, and of 5 acres of land in Adelaide for the university buildings, whilst for the current expenses he may grant by warrant 5 per cent. on Mr. Hughes' contribution, 5 per cent. on the value of real or personal property vested in the corporation, such grant to be not more than 10,000% per annum. For this amount the colonists will receive a good return for their money, for already the executive have shown their energy and judgment in the number and selection of their teaching staff to whom the students are entrusted. His Excellency the Governor is the Visitor; the Right Rev. the Lord Bishop of Adelaide the Chancellor; and the Hon. S. J. Way, Chief Justice of South Australian, Vice-Chancellor. The Hon. Sir Henry Ayers, K.C.M.G., whose name is familiar to the readers of the Journal from his long and useful connection with South Australian mining, is the treasurer, and the names in the council afford every evidence of strength and energy, whilst on the professorial board includes such names as those of the Rev. Henry Read and the Rev. John Davidson, two ministers and scholars well known in the colony; Prof. Horacs Lamb, who is a sound mathematian; and Prof. Ralph Tate, whose intimate acquaintance with natural sciencs will be remembered by those who only a few years since were in the habit of frequenting intimate acquaintance with natural science will be remembered by those who only a few years since were in the habit of frequenting the meetings of the scientific societies of London. The Registra and Acting-Clerk of the Senate is Mr. William Barlow, B.A., whose The Registral

and Acting-Clerk of the Senate is Mr. William Barlow, B.A., whose name appears on the list of Bachelors of the University of Adelaide for 1877; and everything connected with the Corporation appears to be well and systematically carried on.

With regard to the character and scope of the instruction given it is probably from the examination papers that the best opinion can be formed, and these are certainly in every way satisfactory. Both the Matriculation and Bachelor of Arts papers—at present the university is too young to have had any candidates for higher degrees—are carefully set and well calculated to test the student's ability; and, what is the more satisfactory, they leave no doubt that the Senate have decided upon the standard which shall ensure the students who receive degrees from the University of Adelaide being well able to hold their own amongst those of corresponding rank elsewhere. The university has undoubtedly commenced its career way a corporate as easy to be spared to provide well able to hold their own amongst those of corresponding elsewhere. The university has undoubtedly commenced its carefully and as no necessary expense seems to be spared to provide thoroughly competent professors, and plenty of them, paying them at the same time such salaries as shall encourage them to exert them selves to their utmost, to collect a good library, museums, and laboratories, and to do all else that is requisite, its continued progress will be watched with much interest both in the colony and in the Mother Country. in the Mother Country.

THE CHANNEL TUNNEL.—The reason why the Channel Tunnel Company recently ceased their operations in St. Margaret's Bay is stated to be that when the reports as to the soundings between Sangatie and St. Margaret's Bay were handed in by the surveyors it was found that to cut a tunnel between those points would entail an enormous amount of work in sinking. The site in question has therefore bean finally abandoned. The scheme now before the company provides for the sinking of a new shaft at or close to Dover. The site on the French side at Sangatte, near Boulogne, is still looked upon as the best that could be chosen for the commencement of the tunnel. The shaft sunk there is already 70 metres in depth, with a diameter of shaft sunk there is already 70 metres in depth, with a diametr of 22 metres, and the engineers consider that when they have got 10 metres further down the horizontal cutting may be commenced. The engineers of both countries agree that the French opening of the

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Being Notes on a Course of Lectures on Mining, delivered by Herr Bergratt You GHODDEGE, Director of the Royal Bergakademie, Clausthal, The Harz,

tunnel is the most difficult part of the undertaking, as a clayey soil has to be dealt with instead of chalk, and the incursion of water causes much trouble.

CORNWALL MINING INSTITUTE.

The Cornwall Mining Institute, the value of the operations of which is steadily becoming more and more recognised, has this week held its second annual exhibition of mining machinery and accessories, and of miscellaneous articles of kindred character, at the Assembly Rooms, Camborne. Thanks to the labours of the secretary, Mr. Provis, and his coadjutors of the committee, a capital lot of exhibits were brought together, and a very interesting and useful exhibition was the result, as our notice of the principal articles sent will show.

exhibition was the result, as our notice of the principal articles sent will show.

Just at the present juncture the boring-machines are certainly entitled to the first place, and in this conviction the chief feature of the exhibition was the competitive trial which took place at Dolcoath, and to which we cannot, as it was not concluded until somewhat late on Thursday, now refer in sufficient detail. We hope, however, to do so next week. There was nothing absolutely new in the machines which put in an appearance, some which had been expected not turning up. Messrs. Hathorne and Co., Furdon, sent the Eclipse, recently medalled in Paris, and a model of their excellent Reliance air-compressor. The Eclipse was shown with the latest improvements, as it was brought forward at the Polytechnic, where it did such capital work, and obtained a first silver medal. Messrs. Brydon and Davilsen, whose drill is of a peculiarly massive character, and Reliance air-compressor. The Eclipse was shown with the latest improvements, as it was brought forward at the Polytechnic, where it did such capital work, and obtained a first silver medal. Messrs. Brydon and Davilsen, whose drill is of a peculiarly massive character, and withal notably low in price, sent one which has sundry modifications on the machine forwarded by them last year to the exhibition of the Institute, and which then, by some delay, arrived too late for the trial. The Diamond Rock-Boring Company exhibited a machine from Carn Brea, which has been in constant work for four years, with the object of showing how little it had been affected by wear and tear. It will, of course, be understood that this is not a diamond, but a percussive drill. This machine was not entered for trial, those which were being the Eclipse and Brydon, with the Barrow, now in operation at Dolcoath, South Crofty, West Tolgus, and elsewhere; and the McKean, which is working at South Rosker. The diamond, percussive, Barrow, McKean, with the Jordan hand-borer (Mellanear), and the Ullathorne, recently started, comprise the drills now at work in the county. All have their merits, to apply a recent remark of Mr. Richard Taylor on this subject, and the Mining Institute is doing good work in helping the mining community to discriminate as to which may be the most advantageous generally, and in special situations and for special purposes.

Economy in the operation of pit work is one of the great desiderate of the present day. There is no doubt that much of the apparent falling off in the duty of the engines is due to the change that has taken place in the character of the pitwork. Not only are mines deeper, and the power required to operate the pitwork in excess of the proportionate amount needed in former days, but miners have to deal with shafts of a more difficult character, not merely on the underlie, but often exceptionally crooked, the awkwardness of which extension in depth greatly enhances. It is the custom now to use rolls to

weight, with hold-back or fend-off bobs at the angles. These bobs are merely simple arms, to the free end of which the two rods at the angle junction are connected, while the other is pivotted in the side of the shaft or level. By this means not only is the bulk of the friction avoided, but the rods are kept true in direction and relieved from undue strain. Of this arrangement Capt. Teague exhibited a model. He also showed a complete model of a skip road as in operation at Tincroft, in which guides are dispensed with; this road at Tincroft is down 120 fms, vertical, and 220 fms, on the road at Tincroft is down 120 fms. vertical, and 220 fms. on the underlie.

underlie.

Capt. Davey, Wheal Kitty, sent an arrangement for wooden pumping-gear, the bucket and working barrel being alike of wood, and ingeniously contrived. This return to original materials is suggested for use where the mine water is highly corrosive and destructive to metallic appropriate gear.

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for use where the mine water is highly corrosive and destructive to metallic pumping-gear.

Mr. H. R. Marsden, of Leeds, exhibited through Mr. Provis, his representative in the county, a model of his new form of stone-breaker, which gained a gold medal, silver medal, and an honourable mention at Paris. This admirable machine was described in full detail in the Mining Journal very recently, and here, therefore, it will be sufficient to say that the toggles and pitman have been modified with a view of diminishing friction, the result being that by the new arrangement a far larger quantity of material is treated with a much smaller consumption of power. It is really remarkable that these machines have not made their way in the county more rapidly. Wherever they are used they are prized, and there are very few mines that would not greatly benefit by their adoption.

Messrs. Harris and Rounsvell exhibited a full sized model of their patent centre-feeding stamp head. This is an implement of enormous size, for its weight in metal with its connections will be 33 cwts., and the stamping face is equal to that of six ordinary stamp heads of 5½ cwts. each. The feed is from the centre, so that the ore must be stamping face is equal to that of six ordinary stamp heads of 5½ cwts. each. The feed is from the centre, so that the ore must be stamped before it can pass out from under the head, those stones which are not fairly hit flying about in the centre opening only. Of course, if the stuff fed is of unequal size—a very uneconomical arrangement by the way—the largest piece gets well nigh the full force of the whole blow. One notable feature is the amount of grate area secured, the entire circumference being available for such purpose. The head can be adapted to gravitation stamps, as there is provision for absolute centre lift, but it is specially intended for quick-acting stamping machines, and the one of which the exhibit was the model is being manufactured for use in Cor's Compressor Stamps. So used it is claimed that such

Though not included in the exhibition, visitors thereto were in-

Inough not included in the exhibition, visitors thereto were invited to see Willoughby's "Elephant" stamps in operation at Wheal Uny, where they are said to be doing very good work.

A capital lot of steel castings in full variety were shown by Messrs. Joseph Fenton and Sons, of Sheffield. Steel may cost more at the outset, but its lightness and superior lasting powers are giving it rapidly the advantage in every way over iron, as being far more at the outset, but its lightness and superior lasting powers are giving it rapidly the advantage in every way over iron, as being far more handy and economical. Messrs. Fenton's wheels are in use in Cornwall in several mines, including Levant, West Basset, and Dolcoath. At the latter they are in use in the skip road, which goes to the 326 fm. level—the greatest depth worked by a skip-road in the county, if not in the kingdom. Messrs. Fenton's patent corfe which are very ingenious, and the steel wheel-barrow, which was among the exhibits, attracted considerable attention.

In addition to a horizontal engine excellently made, but not novel, and several minor matters, Mr. Holman, of Camborne, sent an ap-

paratus for facilitating the filling of black tin into sacks—a "sack packer." At present it takes a couple of men to sack tin—to hold the sack, shovel the tin in, and shake it down. This apparatus will enable a man and a boy not only to do the work more easily but more efficiently. The sack is suspended on a kind of balance principle at one end of a long overhead lever. As the stuff is shovelled in a boy, by unling a rope attached to the other end of the lever, jerks the sack up and down, and knocks it violently against the ground. In this way it is said that 1½ cut, more it in can be packed a said that a said that it is thought the sack up and down, and knocks it violently against the ground. In this way it is said that 1½ cut, more it man be packed a said that it is the pattern of the said that it is the pattern of the said that it is the said that it is the said that it is the pattern of the said that it is the said that it is the said that it is form squeezing into the pipes, and they may be safely applied under any pressure, and are not affected by vibration. The firms send also ther improved com not affected by vibration. The firms send also ther improved com boilers, and samples of their patent red lead repressant on the said that the said to the said that the packet is a said to the said to the said to the said to be said t

can, however, if desired, be fired in any way employed for ordinary blasting-powder. As the cartridges are issued ready for use they comply strictly with the provisions of the Explosives Act. Weight for weight they do far more work than ordinary blasting-powder, make less smoke, produce less gas, do not waste, and have withal an exceptional heaving power.

Very good samples of fire-brick and similar wares were sent by the St. Day Company and the Pennance Company, Lanner. The most interesting series of exhibits in this department was, however, to be found at the stand of Mr. E. Borlase, who for some years now has devoted his attention to the utilisation of the hitherto waste clays, of which Cornwall possesses a practically inexhaustible supply, some of them being of the finest quality. He showed a quantity of articles made from clay obtained from seven different localities, all adapted for utilisation, and some capable of producing ware not only of rough utility, but of high finish and beauty of texture. Some of the clays were from the bottoms of mines, others derived even from the waste of mining operations, but these were chiefly introduced to show what unpromising materials could be utilised, and the principal clays dealt with were of course natural deposits. Mr. Borlase is developing the germ of what should be a great industry if a little capital is judiciously applied.

Camborne is the centre of the mining instrument manufacture of Cornwall, and a good show in this department was, therefore, only to be anticipated. Messrs. Letcher Brothers exhibited their blow-pipe apparatus, prize and improved, and Mr. Jeffery and Mr. Newton instruments in variety. Mr. Newton exhibited a new form of engine counter, which seems likely to supply a want. The ordinary engine counter, which seems likely to supply a want. The ordinary purpose with a much more useful form, than if it were wholly of steel, of Bristol. The peculiarity of the invention here is that a core or heart of steel is introduced into the iron, of which other

hickory hilts.

Mr. House, of Bedford, sent his water detector and alarm. This consists of a vessel fitted with a whistle worked by a ball-tap. while the water is at the proper height the whistle is inactive; when the water falls the ball-tap opens a steam passage to the whistle. The arrangement is very simple, and by no means liable to get out of order, while it cannot in any way be interfered with.

A lot of samples of the results of the decorative art as applied to

tin-plate came from the Neath Tin-Plate Company. They are ingenious and tasteful, and embodied an idea which might be extended with considerable advantage.

Mr. Penteost, of Camborne, exhibited his wood and other plugs for pumping, first shown at the Polytechnic.

Mr. Husbands, of Hayle, sent his ingenious paradox safety valve worked by mercury on the principle of the hydrostatic paradox.

The miscellaneous included cases of minerals by Capt. C. Thomas and Mr. Newland, an ambulance for the order of St. John of Jerusalem, Messrs. Pocock's tubular water and sir-bed, and the patent filter of the London and General Water Purifying Company.

On Wednesday there was a luncheon, over which Mr. Basset, of Tehidy, presided, and at which Mr. Pendarves Vivian M.P., was present, and spoke on the necessity of adopting all improvements in machinery and processes in order to keep Cornish mining abreast of the times. The Mining Institute was doing excellent work in aiding in this matter by the papers and discussions, and by such an excellent and thoroughly practical exhibition as they had there that day. Mr. Vivian spoke of the smelters and the minera as having a common interest; but this was questioned by Captain Teague, who considered that the smelters acted in opposition to the interests of the mines, and held that nothing had kept mining afford to the hard-headedness and dogged perseverance of the mining community. He believed that the worst was now over, and that good times were not very far distant.

After the luncheon Dr. Foster, the President, delivered his address, in the course of which he passed in review the chief characteristics of the exhibition, and directed attention to those exhibits which he considered calculated to be of most special utility to the mining community.

In the evening there was a concert, and on Thursday, in addition

community.

In the evening there was a concert, and on Thursday, in addition to the drill trials, a conversazione, at which interesting experiments were made with the telephone, microphone, and phonograph, the latter exhibited for the first time in this country.

The following awards have been made:—Certificates of Merit: Major Duncan, for his wheeled ambulance litter; Capt. W. Teague, jun., for his skip-road and model of flat-rods; Mr. T. B. Provis, for model of Marsden's improved stone breaker; Mr. H. T. House, for his patent low-water detector and alarm; Turner Brothers, for elastic washers, white core packing, self-lubricating packing, square flaxcore and graphite packings, and for patent coverings; the British and Foreign Metaline Company, for metaline plugs; Mr. T. B. Provis, for model of Marsden's ore-crusher; Messrs. Fenton and Sons, for their steel wheels, hammers, pinions, &c.; the London B. Provis, for model of Marsden's ore-crusher; Messrs. Fenton and Sons, for their steel wheels, hammers, pinions, &c.; the London Water Purifying Company, for filters; to Messrs. Julius Blancke and Co., Manchester, for exhibits of fittings, &c.; Messrs. Selig, Sonnenthal, and Co., London, for collection of iron and other goods; Mr. W. Heath, for microscopes and telescopes; Tinplate Decorating Company, Neath, for ornamental tin goods; Messrs. Letcher Brothers and Jeffrey, for blow-pipe apparatus; Mr. A. Jeffrey, for mathematical instruments; Mr. Edward Borlase, Redruth, for specimens of Cornish clays; and the Kennel Vale Gunpowder Company, for case of raw materials used in the manufacture of gunpowder. for case of raw materials used in the manufacture of gunpowder. "Highly Commended": Messrs Pocock Brothers, for patent invalid bed; Mr. Richard Pentecest, Camborne, for patent blasting plugs and wooden patterns of Harris and Rounsivell's centre feeding head.

SOUTH STAFFORDSHIRE INSTITUTE OF MINING ENGINEERS.

SOUTH STAFFORDSHIRE INSTITUTE OF MINING ENGINEERS

The monthly meeting of the South Staffordshire and East Worceatershire Institute of Mining Engineers was held in the Geological Museum, Dudley, on Monday, Mr. William North (Mayor) presiding. There were also present, aumong many others, Mr. Henry Johnson (vice-president), Messrs. T. Latham, J. Cole, W. J. Hayward, J. M. Fellows, John Field, W. Farnworth, D. Rogers, J. Hughes, R. Latham, Broughall. It was shown by the reading at the minutes of the Council that the members of the North Staffordshire Institute were to visit Sandwell Park C cliery, Lord Dudley's Clay Croft Works, and the Lye Cross pits on Wednesday next. They are to be met by the Council of the Staffordshire Institute. A discussion as to the advisability of continuing the chemistry class in connection with the Institute was opened, but the general opinion was that a sufficient number of pupils would not present themselves, and the advisability of the opening or not was left a moot question. The next business was the reading of a paper compiled by Mr. Alex. Smith (M.I.C.E.), the secretary. The subject was "The increased danger of gas when floating coal dust is present." In opening Mr. Smith read a letter from Mr. J. Richard Haines, secretary to the North Staffordshire Institute, in which the latter says "There can be no doubt but that it (the dust) has been a fearful auxiliary to the frightful explosions in this district, nearly the whole of the explosions in this district having taken place in the 8-ft. Banbury coal seam, and the dust is most abundant in this seam." Some of the dust was here exhibited. It presented all the appearance of !ampblack. Mr. Smith then read from a paper contributed by Mr. Lucas to the North Staffordshire Institute, in which the suthor held that the fine dust floating about was capable of almot spontaneous combustion, Mr. Macdonald, a member of the North Staffordshire Institute, agreed with the reader, Institute, in which the author held that the fine dust floating about was capable of almost spontaneous combustion, Mr. Macdonald, a member of the North Staffordshire Institute, agreed with the reader, and gave personal experience on the matter, Mr. Smith's paper then dealt with a lecture on "Colliery explosions," by Mr. Thomas Carnelly (Owen's College, Manchester).

In the discussion which followed, Mr. Johnson said all the gentlemen quoted were high authorities on the surject and it beloved.

In the discussion which followed, Mr. Johnson said all the gentlemen quoted were high authorities on the subject, and it behoved all with dusty mines to look quickly into the matter. When they were assured that I per cent, of carburetted hydrogen mixed with coal dust would cause an explosion too much care could not be exercised. He had no doubt in his own mind that the explosion at Apedale was due to this cause. He moved a vote of thanks to the reader, and proposed that Mr. Williams, the teacher of chemistry, should have some of the dust to experiment upon. This was carried unanimously.—Mr. Job Tomson instanced a case where floating dust exploded, doing some little damage.—Mr. Farnworth said throwold have been great damage if I per cent, of carburetted hydrogen would have been great damage if I per cent. of carburetted by drogen had been present.—In reply to Mr. Johnson, Mr. Roper said he had no doubt the explosion at his place was due to the dust.—The discussion was then adjourned.

SOUTH LANCASHIRE AND CHESHIRE COALOWNERS' ASSOCIATION.—The annual meeting of members was held on Tuesday, at the Queen's Hotel, Manchester, Mr. R. Fletcher, jun., the President, occupying the chair. The report of the President upon the proceedings of the Association during the past year was read. Amongst the matters which had occupied the attention of the Association was the Thirlmere water scheme of the Manchester Corporation, with regard to which it had been resolved to present a petition in opposition, as the Manchester Corporation were not prepared to agree to the insertion of a clause similar to section 24 of the Act of 1863, for the protection of the mineowners, but ultimately, as a similar clause was agreed to, the opposition was withdrawn. Mr. J. H. Johnson, of the Abran Coal Company, was unanimously elected president for the ensuing year. SOUTH LANCASHIRE AND CHESHIRE COALOWNERS' ASSOCIATION. the ensuing year.

FURTHER EXPERIMENTS WITH COAL DUST.—At the North of England Institute of Mining and Mechanical Engineers meeting, on Saturday, Mr. Friere Marreco gave an account, illustrated by tables and diagrams prepared by Mr. D. P. Morison, of some further experiments recently conducted by various members of the Institute, including Mr. William Cochrane, Mr. Morison, Mr. George May, and others, on coal dust in relation to colliery explosions. These experiments have been carried out in the laboratories of the college, and at Elwick, Harton and others colligies in order to determine how at Elswick, Harton, and other collieries, in order to determine how far a mixture of coal dust and air, in the absence of fire-damp, is capable of producing an explosive action. The main conclusions to be deduced from the experiments, so far as they have gone, are that the gases from a "blown-out" shot are capable of raising and firing a cloud of such a mixture, in which the flame produced by them may be prolonged to a considerable distance, and that when produced under other conditions described such a mixture might fire at a flame. In either case there is produced a violent action, which, even if it be not strictly what can be called an explosion when carried out on a small experimental scale, may easily become such

when considerably magnified in practice. On the motion of Mr. A. Stevenson, a vote of thanks to Prof. Marreco and Mr. Morison for the lecture, which frequently elicited applause, was carried by accla-

RICHMOND CONSOLIDATED MINING COMPANY.

MR. PROBERT'S REPLY TO THE REPORT OF THE COMMITTEE OF INVESTIGATION.

A complete and exhaustive reply of Mr. Probert to the report of the late committee of investigation has just been issued to the share-holders in anticipation of the general meeting to be held on Wednesholders in anticipation of the general meeting to be held on Wednesday, and it cannot be doubted that by the adoption of this course the proceedings at the meeting will be much simplified, as every shareholder has now the opportunity of judging between the statement of the late committee and Mr. Probert, so that the discussion, so far as this portion of the subject is concerned, ought to be confined to the question of the verification or otherwise of the statements made. It is scarcely necessary to remind the shareholders that the report of the late committee reflected most seriously on Mr. Probert's management of affairs at Eureka, although, as was stated in the Mining Journal, at the time the committee's report was issued in the Mining Journal, at the time the committee's report was issued the evidences afforded by the report itself was sufficient to deprive the reader of confidence in its accuracy and practical value, although he might have no independent data to assist him in clearing up the he might have no independent data to assist him in clearing up the points at issue. That this view was justified is beyond question now that Mr. Probert's reply is known, and he no doubt acts wisely in determining "purposely to refrain as much as possible from argument, and to add only such comments and remarks as seem necessary for explanation, leaving the shareholders to form their own conclusions as to the trustworthiness of the entire report issued by the committee" from the evidence which Mr. Probert offers.

To give anything like a satisfactory epitome of a quarto volume of 132 pages, already condensed to the utmost, is of course impracticable, yet a few of the more important points may be referred to, and it may be stated generally that the late committee have, perhaps from mere want of knowledge, extracted from and formed perhaps from mere want of knowledge, extracted from and formed conclusion upon extracts from documents, which extracts no more supply an idea of the documents themselves than would the repetition of a negative sentence with the negative omitted represent the original. Mr. Probert states that he "simply deals now with a few of the salient points of the report by way of instalment, but he is quite prepared to answer every allegation in detail, and to prove that the conclusions arrived at by the Committee of Investigation are as incorrect as the premises on which they are founded." First, the committee charge Mr. Probert with not having permitted any systematic explorations in the quartzite, and of having carried out his own views "in direct opposition to the opinions of the able experts called in to report;" and further that there was a constant conflict of opinion between Mr. Rickard and Mr. Probert on the subject of the exploration of the mine. This larger extracts from the letters containing the statements, used without context by the comletters containing the statements, used without context by the committee, show not to have been the case. Mr. Probert appears always to have exercised directive influence, but never to have acted dicta-

to have exercised directive influence, but never to have acted dictatorially. The correspondence between Messrs. Probert and Rickard, when the former was away from the mine, appears to have been without exception friendly and unusually long.

As an example it may be mentioned that when the 700 ft, drift had just touched the vein Mr. Probert wrote (Oct. 14, 1875), "I have no belief in the probability of our ever having a large body in the quartzite, and for several reasons. First, the quartzite has never yet (in the district) produced any quantity of ore, and the Hoosac itself is no exception to this rule. Secondly, the ore formerly found in the quartzite in the hill above your house (Coy Hill) was mostly in the quartzite in the hill above your house (Coy Hill) was mostly free of chloride, indicating a formation uncongenial to such ores as those of the Richmond and Ruby Hill. Thirdly, quartzite resists the action of water laden with carbonic acid, the agent which corthe action of water lader with caroonic acid, the agent which corrodes limestone so rapidly, and produces large caverns and pipes; if, therefore, no caverns can be formed by carbonated waters it is vain to expect to find large ore bodies in the quartite." To this Mr. Rickard replied (Oct. 18), "I am quite of your opinion that it is not probable we shall ever find large bodies of ore in the quartite, although the main ore pipe or vein may get near, or even touch, the quartzite in places. The bottom of the mine will be very interesting

although the main ore pape or vein may get near, or even touch, the quartzite in places. The bottom of the mine will be very interesting when we have opened it a little more."

The committee gave an extract from one of Mr. Rickard's letters dated Nov. 10. 1875, making it appear that Mr. Rickard was advocating a different mode of prospecting to that which Mr. Probert suggested. The larger extract shows that so far from this Mr. Rickard stated that "your ideas about the ore bodies quite agree with mine," and was evidently adopting Mr. Probert's views. This set of extracts (September, October, and November, 1875) shows beyond doubt that Mr. Probert's opinions were very fully expressed both as regards prospecting towards the quartzite and as to the importance of pushing explorations in the westerly ground. They also show that Mr. Rickard's ideas and his own were in perfect harmony respecting the formation of the Ruby Hill, and the probable position of the ore bodies to be found in it. The confirmatory letters of Mr. Rickard's written in 1878 to the effect that Mr. Probert "has always been in the habit of conferring with him and the mining foreman for the time being on the subject of the exploratory and other works of the mine, and no special views or theories of his have, so far as Mr. Rickard is aware, been forced on him or anyone else" are unnecessary, and, moreover, being written after the questions have been visited attractions were the content of the paint written after the questions have been visited attractions. een forced on him or anyone else" are unnecessary, and, moreover, sing written after the questions have been raised, are worthless as ridence. Mr. Probert emphatically denies having ever told the committee (Com. Rep., p. 8, per. 9) that the prospecting towards the quartzite and the compromise line was discontinued "because he did not think that profitable ore bodies would be found outside the Such a statement would have been untrue, and incon-(p. 66, par. 2) from Mr. Probert's letter—"The sole reason was that we did not want to precipitate a quarrel or invite our neighbours to prospect the Margaret ground "—as to the prospecting towards the compromise line, and inconsistent with the reasons given on page 8 as to the quartzite direction.

page 8 as to the quartzite direction.

As to the sm-luing works, the committee condemned the hydrocycle furnaces, charged Mr. Probert with purchasing rights on his own account instead of for the company, stated that the fume flue was badly constructed, and that the furnaces were not economic in working. These statements can only, without assuming that the committee were actuated by impure motive, be attributed to regretable ignorance of the subject on which they wrote, and almost culpable carelessness in collecting facts. In December, 1876, the three stone furnaces consumed on the average 36.744 bushels of coal per ton of ore, and the hydrocycles 37.594 bushels. In January, 1877, the figures were with the stone furnaces 41.03 bushels; hydrocycles, 39.85 bushels. In February, 1877, stone furnaces, 49.35 bushels; hydrocycles, 38.95 bushels; and in March, 1877, stone furnaces, 38 1 bushels; hydrocycles, 42.55 bushels. Mr. Probert points out that in order to make an unfavourable comparison between the hydrocycles and the stone furnaces the committee have introout that in order to make an unfavourable comparison between
the hydrocycles and the stone furnaces the committee have introduced a statement at the end of Mr. Eilers' report, to which he must
call special attention for its unfairness. In the first place, the month
of Merch—a broken month at the end of the season—is taken for comparison when No. 4 hydrocycle only ran 18 days, and No. 5 only 10
days, while the three stone furnaces ran 25, 26, and 31 days respectively.
Nor was this all; instead of comparing the coal consumed in March,
which was 381 bushels per ton of ore, with that consumed by the hydrocycles in the same month (42 5 bushels), the coal average for the
stone furnaces for March is obtained from the average for the following month of April, when it happened to be only 35 bushels per ton; as
a further injustice, the quantity of material smelted in the two dydrocycles in March (together working only 28 days) is understated to the cycles in March (together working only 28 days) is understated to the extent of 116 tons, this amount of drosses having been smelted in these furnaces, in addition to the 392 tons of ore and flue dust.

Probably the best comparison is to take neither the committee nor Mr. Probert's figures, but to take the average of the stones and hydrocycles respectively for the three months ending February, and it is by this means found that on a three months' run the stone furnaces consumed 39:375 bushels per ton of ore, whilst the hydro-

cycles consumed 38 798 bushels per ton of ore, the difference being rather more than half a bushel per ton of ore in favour of the hydrocycles. It should have been stated too that whilst the comstated that there had been "about 5000% completely thrown mittee stated that there had been "about 50001. completely thrown away on them" (the hydrocycles) the total cost of the three furnaces complete together, with the furnaces, was as nearly as possible half that amount. The stone furnaces required five men per shift of eight hours, or 15 per day; the hydrocycles require three men per shift, or nine men per day. The labour cost per ton of ore smelted is about the same in both kinds of furnace, but "the cost for repairs is far les in the hydrocycles." In regular working the stone furnaces have consumed on the average 32 72 bushels, and the hydrocycles 29-20 bushels, per ton of ore smelted—that is, the stone furnaces have the same furnaces have the same furnaces have the same furnaces have consumed on the average 32 72 bushels, and the hydrocycles 29-20 bushels, per ton of ore smelted—that is, the stone furnaces have the same furnaces have cyles 29:20 bushels per ton of ore smelted—that is, the stone fur-naces consume 12 per cent. more fuel than the hydrocycles. Mr. Eiler's report is so inaccurate as to the details of the construc-

of the hydrocycles that his remarks upon them are worthless; it is, therefore, unnecessary to fully give Mr. Probert's refutation of them. The committee's statement that "the present success of the stone furnaces is very much due to the more liberal use of quartzy ore as a flux" is shown to be erroneous, by a table of the ores and fluxes used each month from January, 1876, to February, 1878, which shows that after the final enlargement of the furnaces there was no appreciable difference.

was no appreciable difference.

was no appreciable difference.

It is shown that the assayer—Mr. L. H. Davis (who states that he informed Mr. Pulbrook of the facts)—did not leave Eureka because he could not obtain appliance and office room, but because D. Stringer, at that time smelting manager, desired to retain the assayership for his son. The assaying apparatus had been mysteriously destroyed before Mr. Davis's arrival. When Mr. Davis returned to San Francisco he was quickly re engaged by Mr. Probert, and has remained in the company's service, giving great satisfaction ever since. The value of fume-flues is too well known in this country to necessitate following the reference to the committee's peculiar notions concerning them. It was Mr. Probert who first introduced the flue in the United States, and he is given full credit in the Government report for having done so; and Mr. Probert says, "No sooner was the flue put up at the Richmond Works than it was adopted immediately (without acknowledgment) by our neighbours of the Eureka Consolidated Company, as well as by the Philadelphia Lead Company of Pittsburg, and at a later period by Mr. Eilers himself at the Germania Works, Salt Lake—a sufficient endorsement of its value in the eyes of the managers of these establishments." Assuming the guess of the committee to be correct, that 20t. worth of fume is still lost daily, the flue has saved 60 per cent. of the former waste, since it catches 30t, per day, or has returned the company 48 000t, since its arction, the total outlay upon it the commany 48 000t, since its arction, the total outlay upon it the commany 48 000t. of the former waste, since it catches 30% per day, or has returned the company 48,000% since its erection, the total outlay upon it having been 2400%.

As to the general management, Mr. Probert remarks that the committee have all through their report betrayed such an utter want of judicial mind, calm temper, and freedom from prejudice which should characterise persons entrusted with such functions as theirs that it is not surprising to find them now assuming more and more the character of "counsel for the prosecution," and even indulging in invective and personal abuse. Not only are their earlier dulging in invective and personal abuse. Not only are their earlier insinuations and allegations reiterated in referring to the general management in varied form, but new accusations are introduced which hardly appeared in the original indictment, and which but for the rancour displayed in making them would be amusing from their extravagance. He passes over their personalities, little con-cerned at their attempts to make him out on the one hand an imbecile, and on the other a charlatan; nor will be treat the general accusa-tions which they have levelled at him with any greater respect than to give them a general denial, which he now does. He notices only such of these new accusations as are sufficiently definite and only such of these new accusations as are sufficiently definite and precise in their nature to justify the trouble of refutation. He states that Mr. Elliot, the late chairman, correctly represented at the meeting in 1872 the position in which he (Mr. Probert) stood when he went out to the mine—"he went out as a simple shareholder, and in no sense as the *gent of the company, but of course expected his expenses to be paid."

There are letters from Mr. Rickard stating that Mr. Probert never tempted him or offered him inducements to buy shares, Mr. Rickard having become a shareholder at his own will. As to the refinery, documentary evidence is given in support of what has already been

having become a shareholder at his own will. As to the refinery, documentary evidence is given in support of what has already been stated, that Mr. Probert tried to secure for the Richmond Company the exclusive rights for Nevada, but that Messrs. Luce, Fils, and Rozan positively refused to sell a single State right to anyone, but offered the right for the entire United States to the Richmond Company. As the company could not accept this Mr. Probert accepted in order that the company might have the advantage of using the process. The committee feared that "the day is very far distant when the Richmond refinery will be in a position to command either the China or the Eastern lead markets," but as a matter of fact 1720 tons of Richmond lead has been shipped to China and Japan alone tons of Richmond lead has been shipped to China and Japan alone between Nov. 17, 1877, and Sept. 15, 1878. The depreciation in the value of lead in the last twelve months has dimminished the profits to the extent of at least 70,000L, or one fourth the entire capital of to the extent of at least 70,000s, or one-fourth the entire capital of the company, which has of course affected the working results of the refinery. Finally, Mr. Probert leaves it to the shareholders to judge for themselves whether the late Committee of Investigation have really produced "a report of ascertained facts leading to prac-tical conclusions," or whether it is not rather "one of personal opinion and hearsay evidence."

CIRCULAR OF MESSRS. STEUART, MAYBURY, AND PULBROOK, DIRECTORS AND MEMBERS OF THE COMMITTEE OF INVESTIGATION.

INVESTIGATION.

In forwarding a copy of this circular Col. F. G. Steuart writes:—
"As you will, doubtless, be publishing the notice of the meeting of the Richmond Mining Company for the 13th inst., and as that notice is a reflection on myself and two of my colleagues on the board, I shall feel obliged by your giving publicity to the enclosed circular lately issued by us to the shareholders in your next issue."

The circular contains so little of general interest to the shareholders that it is unrecessary to devote space to its publication, but the subjoined abstract will supply what is believed to be a fair outline. Messrs. F. G. Steuart, A. K. Maybury, A. Pulbrook, George Hopkins, John Bayliss, and Samuel Bayliss were appointed the Committee of Investigation at the extraordinary general meeting on Aug. 23, 1873. The committee's report was issued to the shareholders on May 29, 1873. At the meeting on June 18 proxies were lodged in favour of the committee (the signatories of the circular do not say in favour of the report. by 203 shareholders, representing 14, 140 shares, and by 95 shareholders, representing 11, 2073 shares in favour of the directors; but the Hon. Randolph Stewart and Mr. L. T. McEwen, considering it unfair to act on the committee's report without receiving Mr. Probert's reply, it was ultimately resolved to refer the report and recommendations to the board for their consideration and guidance, the board to report to a meeting not later than Nov. 9 as to their action thereon, and that Mr. Probert having stated that he was preparing a reply and asked for a hearing, such reply should be printed and circulated among the shareholders, and Mr. Probert having stated that he was preparing a reply and asked for a hearing, such reply should be printed and circulated among the shareholders, and Mr. Probert having stated that he was preparing a reply and asked for a hearing, such reply should be printed and circulated among the shareholders, and Mr. Probert having stated that he was preparing a reply and as

Probert arrived in England on Sept. 30, and and at the board meeting on . 29 he stated that, although his reply was ready as far as he was concerned, sould not answer for the printers. Thereupon Mr. A. Pulbrook moved, and not asset seconded, the following resolution: - "Mr. Edward Probert hav be could not answer for the printers. Thereupon Mr. A. Pulbrook moved, and Colonel Steuart seconded, the following resolution:—"Mr. Edward Probert having stated to the board that he had been engaged night and day upon his reply to the committee's report, but that he could not undertake to circulate that reply, which would be incomplete, amongst the shareholders longer than two or three days before the time fixed to hold the meeting—Nov. 9—the board being of opinion that the spirit of the resolution has been carried consider that it is undesirable that a meeting should be held so soon after the circulation of Mr. Probert's reply, inasmuch as there will not be sufficient time for the shareholders to consider that reply and the committee's report in order to give an expression of opinion at the meeting on the points it is convened to discuss; and that the meeting should not be convened until after Mr. Probert's reply had been circulated amongst the shareholders. To which Mr. Schultz moved, and Mr. Probert seconded, the following amendment:—"That the extraordiuary general meeting for receiving and taking into consideration Mr. Probert's reply be convened for Wednesday, Nov. 3. instead of Saturday, Nov. 9. as per resolution of general meeting, July 2, 1878." Mr. Broughton and Messrs. Probert and Schultz voted in favour of the amendment, and Culonel Steuart, Dr. Maybury, and Mr. A. Pulbrook against it, whereupon Mr. Broughton, as Chairman, gave a second or casting vote in its favour; hence it will be seen that the shareholders have been called together to passan opinion on a reply which nobody is likely to see until a few days before the meeting is held. At the same meeting Messrs. Steuart, Maybury, and Pulbrook supported a resolution to send Committee's reports to all new shareholders, but the motion was lost on the casting vote of the Chairman. These gentlemen further state that they desire distinctly and at once to inform the shareholders that should they find the required majority of the shareholders desire their

the trouble of attending a second meeting on this subject. It is likewise stated that Messrs. John Taylor and Sons have been employed (but it is not said by whom) to give an independent report. Their agent, Capt. Tonkin, late manager of the Cape Copper Mining Company, will shortly be returning from an inspection of the company's property, and it would no doubt be instructive to the shareholders to hear what those gentlemen have to say before coming to any determination as to the future management of the works at Nevada.

Taking the several portions of the Circular in order, the only conclusions that can be arrived at appear to be these. It is evident that the board as at present constituted is divided against itself, and "a house divided against itself shall surely fall." The number of proxies lodged in favour of the committee for the June meeting cannot be accepted as evidence in favour of the committee, since the shareholders could have had but 20 days (from May 29 to June 18) to consider a report more than twice the length of Mr. Probert's reply, for which they are allowed 14 days. But this is not all. At the time the committee's report was issued the subject was entirely new to the shareholders, so that the reader had to study and master every detail, for which task 20 days was certainly lossificient. But at the time of Mr. Probert's reply, all the details being known (from the committee's point of view), two days would be ample to master the reply and obtain such knowledge as would permit of a useful judgment on the relative merits of the two documents being formed.

The notion entertained by the Hon. Randolph Stewart, Mr. L. T. McRwen, and their supporters, that a man previously considered honourable condemed in an exparte statement as true, is so generally regarded wavarantable that it would have been thought that neither military men, doctors, nor even lawyers, would have been thought that neither military men, doctors, nor even lawyers, would have been fairly remunerative to the shareholders, and it wi

WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS. MINEOWNERS, STOCK AND SHARE DEALERS, &c. 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

Ten years ago the weekly information which had previously been published for a great number of years in WATSON BROTHERS' Mining Circular was transferred to the columns of the Mining Journal, with the following announcement; which is now reproduced in consections of the manufacture and examine a consection of the superconduction and a consection of the superconduction of the superconductio quence of the numerous letters and enquiries handed to them of late in reply to one which appeared in the Journal on the Clementina Mine.

Mine.

At the year 1843, when mining was almost unknown to the general public attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. WATSON, F.G.S., author of "Gleanings among Mines and Miners," "Becords of Ancient Mining," "Cornish Notes" (first series, 1862), "Cornish Notes" (second series, 1863), "The Progress of Mining," with Statistics of the Mining Interest, annually for 21 years, &c., &c. In the Compendium, published in 1843, Mr. WATSON was the first to recommend the system of a "division of small risks in several mines, ensuring the success in the aggregate," and Messr, WATSON BROTHERS have always a selected list on hand. Ferhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advice in regard to mines and sharedealing than there is at present; and from the lengthened experience of Messrs. WATSON BROTHERS they are emboldened to offer, thus publicly, their best services and advice to all connected with mines and mining.

emboldened to offer, thus publicly, their best services and advice to all connected with mines and mining.

Messrs. WATSON BROTHERS are daily asked their opinion of particular mines, as well as to recommend mines to invest er speculate in, and they give their advice and recommend mines to the best of their judgment and ability, founded on the best practical advice they can obtain from the mining districts, but they will not be held responsible, nor subject to blame, if results do not always equal the expectations they may have held out in a property so fluctuating as mining.

The great extension of mining business, the difficulty so often complained of y country shareholders in getting accurate and disinterested information as to he state of Cornish and Foreign Mines, and of the financial and real position of nining companies generally, have induced Messrs. WATSON BROTEKES to make heir Circular now published in the Mining Journal more extensively known, and

their Circular now published in the Mining Journal more extensively known, and to state—
That they issue daily to clients and others who apply for it a Price List (as supplied to most of the London and country papers), giving the closing prices of Mining Shares up to Four o'clock.

They also buy and sell shares for immediate cash or for the usual fornightly ettlement in all Mines dealt in on the Mining and Stock Exchanges, at the close market prices of the day, free of all charges for commission. They deal also, on the same terms, in the Public Funds, Railways, Telegraphs, and all other Securities dealt in upon the Stock Exchange.

Having agents in all the mining districts, they are constantly getting mines inspected for their own guidance, and will also obtain special reports of any par-Meular mine for their clients, for the inspecting agent's fee of £2 2s.

NORTH HENDRE LEAD.—The revenue account for the year ending Sept. 30 was given in the City Article last week, but there is one item in the general balance-sheet which reminds us of a story we heard a short time ago. At a meeting of shareholders in a certain mine the great want of a paw shaft "when short time ago. At a meeting of shareholders in a certain mine the Chairman was remarking upon the great want of a new shaft, "when a shareholder very innocently asked if one could not be bought or borrowed?" He must evidently have had his eye upon North Hendre accounts, for here we find "new shafts and levels, 3902!. 12s. 10d.," taken as an asset—that is, as things that can be realised! We never, that we are aware of, saw these things in a balance-sheet before. The money expended in sinking shafts and driving levels is invariably charged in current costs; they are the most essential things in working a mine, but in no way can be called property, or an asset. Neither the expenditure incurred, nor any part of it, could be recovered, or would, in fact, form any property whatever in relinquishing the mine or in case of a wind-up. It is just possible, on the other hand, that expenses might have to be incurred in relinquishing the mine or in case of a wind-up. It is just possible, on the other hand, that expenses might have to be incurred in covering and securing the shaft.

The Joint-Stock Act (25 and 26 Victoria, cap. 89) in the first schedule given as a guide for halance-shear divides "

The Joint-Stock Act (25 and 26 victoria, cap. 69) is schedule given as a guide for balance-sheets divides "property," such as can be taken as an asset into "immovable and movable." The former consists of—1. Freebold land.—2. Buildings.—3. Least-consists of—1. Stock in trade—2. Plant, holds. Movable property consists of—1. Stock in trade-or things movable that can be converted into money. In or things movable that can be converted into money. In the North Hendre accounts, machinery and plant are among the assets for 34301. 11s. 8d., which is right enough; then comes new shaft and levels, 39021. 12s. Take this sum from the assets, where we question its right to be, and there would be an end of the "33061.9s. Id. available for a dividend!" There may, however, be an explanation given as to these items, something that we know not of.

COPPER is in almost universal use, both in the arts and manufactures of the country, and also as an alloy in almost every description of metal. The French standard for gold is 900 parts gold and 100 copper; the English standard, 916·17 gold, silver and copper 83·13. The English standard for silver contains 925 silver and 75 copper. In timing from there is used 8 parts of tin to 1 of iron.

100 copper; the English standard, 916-17 gold, silver and copper 83-13. The English standard for silver contains 925 silver and 75 copper. In tinning iron there is used 8 parts of tin to 1 of iron. The country just now is flooded with so-called French "pennies," but which are not equal in value to ours; and we understand a very profitable trade is being carried on by buying them up in France and circulating them here. A stop should be put to this—and every one should refuse to take them. If copper money is wanted it would be a great boon to the trade if some hundreds of tons of that metal were cleared off the market and coined into pence.

PRINCE OF WALES returned large quantities of copper ore and paid good dividends from comparatively shallow levels; and the

paid good dividends from comparatively shallow levels; and the works were stopped, because the engine was inadequate to keep the water from the bottom level, and the shareholders were averse to the collection of the collection o the water from the bottom level, and the shareholders were arrected to the call necessary to provide funds for a new one, as it was required, just after spending a large sum of money, which absorbed the balance in hand, for steam stamps for tin, which were insisted upon against our advice, and that of the agents. The silver department now being worked on tribute is not so certain or lasting as the copper, though sudden discoveries sometimes create excitement. To work the mine as it ought to be worked a large engine—to be got cheap enough now-a-days—should be erected. The shareholders, however, are not disposed of themselves to do this; and the only way to save the property, if it could be carried out, would be form a limited company in (say) 12,000 shares of 1t. each, give the present company 5000 fully paid-up shares in the new (provided they each assist by taking up a few of the others), and 10000 in

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of course. standard posed to which, cal of the ore less of a 83/. 18s., v for his ore at the san there wou be 480l. 'only! Th the return copper is 6 20/, 18s., m explanation in the year during tha Mines rose from 500l.; to 400l.; A 10s. to 6/.;

lead mines rose to 81.,

dends, and through a s We do no rally repeat ecember, 1 writer made aid-" Befo bout embar perience it sive one to however we pear, that a few. The di and almost i favourite mi price of shar of the jobber ines, their pects of suc Our later exp we endeavou ines, and re New Rose

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MR. WILI s well as two ets, begs to o W. H. H. W. W. H. H. W. following share

ARENDAL, E WEST PRUS MONYDD G LEADHILLS. WYE VALLE D'ERESBY N In the Sale ar W. H. H. W. at par; also, 50

WEST GODO agent, Mr. the West Gode at the expirati

Address

cash to pay their debts with. Thus, with a capital of 5000l., the Plince of Wales might be made a fine property.

Our Bath correspondent is informed that the "Compendium of British Mining," published in 1843, is out of print. "The Records of Ancient Mining," by the same writer, were published in the Mining Almanack (Mining Journal Office) for 1849, page 163. Prior to this, in 1844, a series of articles by the same writer, and illustrated by woodcuts, were given in the "Railway Magazine" (monthly), published by John Weale, Holborn, and edited by Hyde Clarke.

XX—We avoided "Emma" and all American mines, knowing the way in which many of them were introduced, and have not paid particular attention to the proceedings of any. The name of a live "lord" at the head of affairs, as our correspondent observes, may have great attraction for some people, but they ought not to expect any pity if they lose their money, after the examples they have had before them. In a good English mine, under proper management, so that speculators have nothing more than the ordinary risks of mining to contend against, anyone wishing to invest can nagement, so that speculators have nothing more than the ordinary risks of mining to contend against, anyone wishing to invest can test the reports given him by a personal visit, or by sending a respectable agent to inspect it for him at a trifling cost, and this we always recommend. In American mines we have to take too much

respectable agent to inspect it for him at a triling cost, and this we always recommend. In American mines we have to take too much upon trust.

PRODUCE, STANDARD, AND THE UNIT.—If copper ore of 10 per cent. produce fetches 5t, per ton, it is said to bring 10s. per unit—that is, 10s. for each 1 per cent. of produce. This produce means, of course, the percentage of fine copper in the ore. The standard is regulated by the produce; low-produce ore having a higher standard than rich rich ore, and vice versa. The smelters are supposed to charge the miner 2t. 15s. per ton for smelting the ores, and which, called "returning charge," is deducted from the real value of the ore. The working of the standard has always been more or less of a mystery of the smelters. Last week the standard was \$3t. 12s. 6d. per ton, or 9s. 6d. per unit. Now, copper at the same time was worth 63t. per ton, and as at (say) 7\frac{3}{2} per cent. there would be 7\frac{3}{2} tons of copper in 100 tons of ore, the value would be 480t. The miner got for the ore, at 3t. 12s. 6d. per ton, 32t. 10s. only! The standard for ore, as it is called, is made up by adding the returning charge to the value of the metal in the ore; thus, if copper is 63t. per ton, the returning charge of 2t. 15s. per ton on 7\frac{3}{2} tons, or the average percentage in the ore, would be about 20t. 18s., making the standard 83t. 18s. We cannot give any clearer explanation of it than this.

In the year 1852 the standard rose to 125t. 5s., produce 6\frac{3}{4}, and during that year shares in various mines also rose amazingly. United

n the year 1852 the standard rose to 1251. 5s., produce 63, and

explanation of it than this.

In the year 1852 the standard rose to 1251. 5s., produce 63, and during that year shares in various mines also rose smazingly. United Mines rose from 701. to 9501, per share; Basset, 4004. to 5251.; Buller, from 5001. to 8001.; Devon Consols, 2801. to 4001.; Botallack, 2001. to 4001.; Dicoath 281. to 601.; Cefn Brwyno, 451. to 950. Of two lead mines that we had just introduced, one at 21. 10s. (Merllyn) rose to 81., and South Tamar at 12s. 6d. to 61. Both paid good dividends, and the latter worked under the River Tamar was flooded through a slip in the bed of the river a few years after.

We do not nowadays see such figures as these, but history generally repeats itself, and we do not despair. We have taken the figures thus given from our then "Ninth Annual Review of the Progress of Mining in England," published in the Mining Journal of December, 1852. In concluding that review of 26 years ago, the writer made a few remarks which may not be amiss to repeat; he said—"Before concluding, I would offer a piece of advice to those about embarking in mines for the first time, and after 15 years' experience it will not. I hope, appear presumptuous—never confine your speculations to one mine; or, as the proverb says, put all your eggs in one basket. One mine, for a hobby, often proves an expensive one to ride. It is impossible, however well recommended, however well managed, and however good the prospects may appear, that all mines can pay; invest, therefore, in a well selected few. The division of a risk diminishes the effects of a partial lose, and almost insures success in the aggregate. Every dealer has his favourite mine to recommend; the 'bull' or the large holder extols, the 'bear' or he who is short of stock depreciates, and thus the price of shares too often depends upon the caprice and influence of the jobber; but in purchasing look to the intrinsic merits of mines, and recommend a division of risks.

New Rosewarne.—On behalf of those shareholders who have written us upon the subj

when Added water E.—On benair of those spaceholders who have written us upon the subject, an application was made to the Stannaries Court, on the 6th, to divide the call, as we suggested last week. The only creditor agreed; the solicitor to the official liquidator agreed; but the Registrar would not depart from the rules of the Court. We are given to understand, however, that any shareholder applying for time may do so, and that the solicitor will not oppose such application. We have not seen the accounts, and cannot, therefore, say how such a call has become necessary.

such application. We have not seen the accounts, and cannot, therefore, say how such a call has become necessary.

Savenay, Nov. 2.—Market quiet. Carn Brea, 35 to 40; Dolceath, 27 to 29; Theroft, 8 to 10; South Condurrow, 10 to 10½; South Frances, 4½ to 5½; Great Lazey, 14½ to 15; Van, 14 to 15; Roman Gravels, 6 to 6½; Aberllyn, 11 to 13; Pateley Brigg, 3 to 3½; Tankerville, 2½ to 3½.

Monday, Nov. 4.—Market countinues very quiet, and scarcely any business doing. Van, 14 to 15; Great Laxey, 14 to 16½; Morman Gravels, 6 to 6½; Tankerville, 2½ to 3½; Devon Great Laxey, 14 to 16½; Morman Gravels, 6 to 6½; Tankerville, 2½ to 3½; Devon Great Consols, 15s. to 25s.

Tubay, Nov. 5.—Market very innective, and the following quotations are simple to the substantial of the substantial comminat:—Aberllyn, 11 to 13; Carn Brea, 35 to 40; Devon Great Consols, 15s. to 25s.

Tubay, Nov. 5.—Market very innective, and the following quotations are simple to 15 to 29; East Van, 1½ to 2½; Great Laxey, 14½ to 15; Eastlike, 1½ to 2; Parys Mountain, 4s. to 6s.; Pateley Bridge, 3 to 3½; Penguital, 3s. to 5s.; Roman Gravels, 6 to 6½; Rockhope Lead, 10s. to 12s. 6d.; South Condurrow, 10 to 10½; South Frances, 5 to 5½; Tankerville, 2½ to 3½; Great 10; Van, 14 to 15; West Chiverton, 5s. to 15s.; West Tolgus, 40 to 4½; Agar, 4 to 4½; Grenville, 2½ to 3; Peevor, 6 to 6½.

Wednesday, Nov. 6.—Market exceedingly quiet, and prices about the same alyete-day.

Taugaday, Nov. 7.—There is very little change in the market to-day, and prices

WEDISEDAY, NOV. O.—Market exceedingly quies, and prices yesteday. There is very little change in the market to-day, and prices eagin without any material alteration since Tureday's quotations. FRIDAY, NOV. 8.—Market rather firmer for the shares. Dolcoath, 28 to 30; Carn rea, 35 to 40; South Condurrow, 10½ to 10½; South Frances, 5 to 5½; Tin-di, 8 to 9; Agar, 4 to 4½; Grenville, 2½ to 3; Peevor, 6 to 6½; Van, 14½ to ½; Great Lavey, 14½ to 15½; Tankerville, 3 to 3½; Roman Gravels, 6 to 6½; Serllyn, 11 to 13; West Tolgus, 39 to 41; East Van, 1½ to 2½.

M.R. WILLIAM H. H. WATSON having had a few years' experience in Practical Engineering and Mining in Cornwall, as well as two years' practice in the London Stock and Share Markets, begs to offer his advice and services to Shareholders and Intending Investors in Mines, and in the Purchase and Sale of Shares. W. H. H. W. will shortly be in Wales, and will be happy to give his independent opinion of such Mines as he may visit.

W. H. H. W. has had special business placed in his hands in the following shares:—

D'ERESBY CONSOLS. 20 ABERLLYN, £10.

8ANTA BARBARA.

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100 PITANQUI, 100...
SOUTH FRANCES, £51/4.
100 HULTAFALL.
MORFA DU, 168...
25 ARENDAL, £4.
10 WEST PRUSSIAN (to sell).
10 MONY DU GORD DU, £21/4.
20 DEVON GREAM.

CLEMENTINA, £11/4.
ROCKHOPE.
GLENROY.
PANTY MWYN.
TANKERVILLE.
VAN.
WHEAL AGAR.
ROMAN GRAVELS.
PRINCE OF WALES.

and expected on receipt of transfers.

W. H. H. W. has FOR SALE all or any part of 20 Aberllyn shares, at par; also, 50 Clementina, at 1½. Early application desired.

1-60th in lieu of the higher rates of dues hitherto paid by the

FOREIGN MINES.

FOREIGN MINES.

BIRDSEYE CREEK.—G. S. Powers, Oct. 16: We are still cleaning in the bottom in the Necee and West claim, but I shall be obliged to wind-up the rock cleaning by the 25th inst. on account of the lateness of the season, and we must look to it that our ditch, &o., are in shape to take the water. Since I last wrote you I have been in San Francisco, and ordered iron for pipe for main ditch. The whole cost of 100 ft, when laid down francisco, and made on the ground. The whole cost of 100 ft, when laid down francisco, and made on the ground. The whole cost of 100 ft, when laid down francisco, and made on the ground. The whole cost of 100 ft, when laid down francisco, and made on the ground. The whole cost of 100 ft, when laid down francisco, and made on the ground. The sent pipe for the Necee and West. The prospects for another season look much more favourable, and I tust and feel that we will make a far better showing than any season since the company was former.

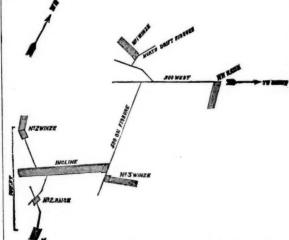
BLUE TENT.—D. T. Hughes, Oct. 12: The water has given out here, but there is still some left in the lakes. It had to be stopped in order to be able to do some work on the dams, as the running water interfered. We also have to do some work on the dams, as the running water interfered. We also have to do some work on the dams, as the running water interfered. We also have to do some work on the dams, as the conting water interfered. We also have to do some work on the dams, as the conting water interfered. We also have to do some work on the dams, as the conting water interfered. We also have to do some work on the dams, as the conting water interfered. We also have to do some work on the dams, as the conting water interfered. We also have to do some work on the dams, as the conting water season.

PLACERVILLE GOLD QUARTZ.—T. Price, Oct. 14: I have but very little information to furnish you this time further than that the shaft has been sunk to the depth of 30 ft. below the third level; winze and shaft show good quartz.

RICHMOND.—R. Rickard, Ost



— R. Rickard, Oct. 9: Since my last explorations in the mine have been carried on with great vigour, and with very good results. The 400 drift in the same character of rock as last reported, it being on the contact of quartzite and limestone, is very favourable ground for crifting. The winze below No. 7 chamber is holed to the 500, which will erable us to stops much more economically than we have been able to do for some time past. The drifting of the 500 on fissure has been resumed; we are working at full ou this drift, which will be the means of exploring more rapidly, the present end is in good ground for drifting, and favourable looking for ore. A drift has been started north from No. 1 winze on fissure on the 500 level; the ground is favourable for drifting; this drift we are working with the Burleigh drill. No. 2 winze is down 80 ft., the bottom is in limestone; this winze has been started on an incline regardless of the ore to connect with the 600, which is drifted for ventilation and ore shute. From top of No. 2 rise, 30 ft. above south drift from lociline, a drift has been driven 40 ft. in good ore, and the end still in high grade ore, The present end of this work is 20 ft. above the 500, thereby clearly showing that the ore is making up strong and good. No. 3 winze has been abandoned for the time being for lack of air; this ground will be explored from the 600. The 600 on main drift west is looking very favourable for ore; the present end is in limestone, with seams of red stained lime. A cross cut has been started from the end of this drift to connect with No. 2 winze being sunk below the 500. The 8 0 is being drifted on the contact of quartzite and limestone; ground favourable. The drifting of the 900 west has been suspended for the tipe ground is with seams of red stained lime. A cross cut has been started from the end of this drift to connect with No. 2 winze being sunk below the 500. The 8 0 is being drifted on the contact of quartzite and limestone; ground favourable. The drifting of the 900 wes



*This point is 20 ft. above the 500 level, and 85 ft. west of the 500 on fissure.

—R. Rickard, Oct. 17: During the past week operations in the mine have been carried on with vigour. The 400 on quartzite has been drifted 26 ft.; the present end is in firmer ground, and showing occasional bunches of ledge matter. The drift from the bottom of the winze in No. 8 chamber has been advanced 21ft.; all the distance in low-grade ore, with stones of galena. The 500 on fissure south has been drifted 36 feet in very favourable ground. The same level north on fissure has been advanced 22 ft.; the fissure is close, but well-defined. A drift has been started in the drift from No. 2 rise in an easterly direction, towards the 500 level on fissure; it has been drifted 24 ft. in good ore. When the 500 drift is far enough forward, a cross cut will be started to connect with this ore; the 500 level on fissure; it has been drifted 24 ft. in good ore. When the 500 drift is far enough forward, a cross cut will be started to connect with this ore; the 500 list down 52 ft.; the bottom is in hard limestone. The 600 west drift has advanced 19 ft., and the cross cut from same 15 ft.; both these drifts are looking very favourable for ore. The face of the drifts are full of seams of ledge matter with occasional stones of fron, which is a very favourable indication. The 800 on quartzite has been drifted 16 feet without the slightest material change. The same level on the fissure has been driven 27 feet; very favourable ground for drifting. There is no change in any other part of the mine since my last. The present appearances of the mine are very flattering. We are pushing on the reconstruction of the works with all possible speed; part of the timber has arrived, and the carpenters are at work framing it, and shall begin raising it next week. The roofing was shipped from Pittsburgh yesterd uy.

MINERAL HILL—Mr. Plummer, Oct. 14: Exploratory: In the level south of Troy winze the men have completed their contract. The present end is without ch

MOHFA DU, 16s.

MOHFA DU, 16s.

ARENDAL, 24.

MOHFA DU, 16s.

GLENROY.

JARENDAL, 24.

MOHFA DU, 16s.

GLENROY.

JARENDAL, 24.

MOHFA DU, 16s.

GLENROY.

JARENDAL, 24.

MOHFA DU, 16s.

GLENROY.

PANTY MWYN.

TANKERVILLE.

VAN.

EAST VAN.

WHE ALAGAR.

KOMAN GRAYELS.

DERBSEY MOUNTAIN.

Jeth Sale and Purchase of Shares advertised cash will be paid and precise of the superintendent are to hand, with 1 long of a sale by tender.—Letter of Oct. 15—The filive Ore shaft is 20 ft. below the level of the 8th level. A sample of the mineral in the bottom of the shaft assays 400 czs. sliver per ton. The Union Tannel drift is now 240 ft. west of the tunnel heading, and we have to day 2 in. of mineral in the bottom of the tunnel heading, and we have to day 2 in. of mineral in the bottom of the tunnel heading, and we have to day 2 in. of mineral on the hanging-wall, and having a ½-in. vein on the footwall. The Usion Tunnel stope has not looked at part is also, 50 Clementina, at 1½.

Early application desired.

Address: 1, ST. MICHAEL'S ALLEY, CORNHILL,

LONDON, E.C.

WEST GODOLPHIN MINE.—His Grace the Duke of Leeds, through to tall remission of royalty on all minerals that may be produced by the West Godolphin Company during the ensuing six months, and at the expiration of that time, and during his pleasure, to accept

one drill to work both sast and west, and to-day there is a little mineral in both. We are constantly coming acroes small breast heads, which give us hopes of being sear the Brown tools. The greated continues hard, and texpect to satt the upper great the Brown tools. The greated continues hard, and texpect to satt the upper great the Brown dotted from No. 5 are a shout before the alltie evil, with the dependence of the satter of the

SCOTTISH AUSTRALIAN INVESTMENT COMPANY .- For the half-SUCCESSE AUSTRALIAN INVESTMENT COMPANY.—FOR the half-year ended June 30 the accounts show that there is a balance at the credit of profit and loss of \$1,600!. After appropriating 12,553!, for the payment of interest on the debentures, and the dividend on the preference stock, there remains an available sum, inclusive of \$900!. brought forward, of 22,956!. Out of this it is proposed to pay a dividend on the ordinary stock at the rate of 10 per cent. per annum, and a bonus at the rate of 2% per cent. per annum, making, with the interim dividend paid in May, 11% per cent. for the year. The amount carried over is 4206!.

IMPERIAL CONTINENTAL GAS ASSOCIATION.—The directors will recommend, at the meeting to be held on the 26th inst., a dividend of 5 percent. for the half-year ended June 30 last.

THE WELSH SLATE QUARRIES.—At the Penrhyn, Llanberis, and other large quarries in North Wales, the "bargains," or contracts taken by the workman, were yesterday let at a reduction averaging from 20 to 25 per cent. The reduction was necessary owing to the accumulation of stocks and the dulness of the trade, which, it is said, is in some degree traceable to the importation of American slates, and the North Wales Quarremp's Huing advised its adoption by the and the North Wales Quarrymen's Union advised its adoption by the men, who were in favour of shortening the hours of labour. At the Rhos quarry, Bettws-y-Coed, the strike has now extended over

NO MORE INCRUSTATION BY USING THI

GLOBE STEAM BOILER POWDER For testimonials and particulars, apply to-

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LOCOMOTIVE TANK ENGINES

FOR MAIN LINE TRAFFIC. SHORT LINES COLLIERIES, CONTRACTORS, IRONWORKS, MANUFACTORIES, &c., from a superior pocification, equal to their first-class Railway Engines, and special: / w'apted to harpourves and heavy gradients, may always be had at a short notice from—

MESSRS. BLACK, HAWTHORN, AND CO., LOCOMOTIVE, MARINE, AND STATIONARY ENGINE WORKS, GATESHEAD-ON-TYNE.

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(LIMITED)

MANUFACTURE RAILWAY CARRIAGES and WAGONS of EVERY DEBORIPTION, for HIRE and SALE, by immediate or deferred payments. They
have also wagons for hire capable of earrying 6, 8, and 10 tons, part of which
are constructed specially for shipping purposes. Wagons in working order main
tained by contract. MANUFACTURERS also of HONWORK, WHEELS, and
EDMUND FOWLER, Managing Director.

WAGON WORKS,—SMETHWICK, BIRMINGHAM.

THE LAMORNA HARBOUR AND GRANITE WORKS

(LIMITED).

Incorporated under the Companies Acts, 1862 and 1867,
By which the entire liability of each shareholder is strictly limited to the amount of each share.

Capital, £25,000, in 2500 shares of £10 each,

to be paid as follows:—
£2 10s. on application, £2 10s. on allotment, and the remainder in arts, at three and six months from date of allotment. If no allotment be made, deposits will be returned in full.

Of the above shares 1500 are offered for public subscription.

DIRECTORS.
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Radford, Exeter.
HORATIO RICHARD SNELGROVE, Esq., Architect and C.E.

Craven-treet, Charing Cross, London.

Reverend JOHN BARTLETT, M.A., the Rectory, Gerrans, The Reverend

The Reverend JOHN BARTLETI, M.A., the Rectory, Gerr Grampound, Cornwall.

EDWIN BRADSHAW, Esq., Contractor, St. Thomas, Exeter.

GEORGE WREFORD, Esq., Oakville, Anerley, London, S.E.

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The UNION BANK OF LONDON, Chancery-lane, London.

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Messrs. BOLITHO, SONS, and CO., Penzance.

MANAGING DIRECTOR.

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Inn-fields, London.

AUDITORS. F. W. PIXLEY, Esq., 5, Westminster Chambers, Victoria-street, S.W.

Mr. EDWIN FEWINGS.

DEVEREUX BUILDINGS, 214, STRAND, LONDON, W.C.

OFFICES.

DEVEREUX BUILDINGS, 214, STRAND, LONDON, W.C.

This company has been formed to parchase, from W. H. Owen, Eq., the lease and freehold lands of the Lamorna Harbour and Graulte Works: and the directors have pleasure in presenting to the public a property of a non-speculative character, in working order, and ready to make immediate profits.

The Lamorna Marbour Property, situate at Lamorna Cove, on the south coast of Cornwall, about 3½ to 4 miles from Penzance, comprises about 30 acres of lease-hold land, and also as much of the foreshore as is sufficient for the pier (which forms the breakwater) and harbour. The harbour is formed by a wharf, 191 ft. in length, and a cross jetty or pier 129 ft. in length. On this land the granite quarry has been opened and worked, and is now clear and in working order. The quarry has been opened and worked, and is now clear and in working order. The quarry has o crane of sufficient power for all quarry purposes, and on the harbour pier stands another powerful crane for eshipping purposes. There is on the upper platform wharf a travelling crane for loading and unloading and stacking stone on and from the trams, wagons, or trucks. There are also several substantial stone-built buildings, consisting of a large blacksmith's shop, fitted with two forges in working order, a smaller one used as a store, also a powder magazine, and other buildings. The wharves and pier are well and substantially built, in ground blue lias mortar, sold throughout, and every stone of the pier within range of the sea was laid in hot hydraulic mortar and evenented with Roman or Medina cement, so as to form one solid mass, from surface to centre, equal to an original solid rock. There is also a stone built carpenter's shop, and lime and mill house, containing a revolving mill for griading time, driven by an overshot water wheel, equal to about 12-horse power, which has been the property of the purpose for which milling power may be required. Beside the mill house, and under the same soot, is the carp

whole, with the working plant, has been carefully upfield and relatined in good ords and condition, and considerable sums have been very recently laid out in completing the buildings and preserving the plant, all of which are now in excellent working order.

On the cliff, in a high position immediately overlooking the harbour, and within almost speaking distance, stunds a substantial stone-built, six roomed dwelling house for a foreman, and about 3:0 yards from the sea is a capacious and handsome dwelling house, with a large room (originally intended for a Chapel of Ease or school room). This house is well and expensively built, and is capable of being utilized as (for instance) a marine telegraph station or terminus, for which, in point of both capacity and position, it is eminently adapted.

The portions thus far enum-rated are leavehold for a long term, at an almost nominal rent, of which about 30 years are maxpired. Royaity, 64, per ton.

Beides these, there is a frechold cottage, with large garden; also about 3 to 4 acres of freehold land, bounded on one size of its whole length (nearly a quarter of a mile) by the stream of water which its been mentioned. On this land stands a new and perfectly well-built coach house and stable, with mars room over, erected within the last three years. Portion of this land is cultivated. Just above and adjoining (separated only by a mill learly are 6 acres more of frechold land, of excellent quality, facing and sloping to the south west, all of which is available, either as building land or for mining purposes, the whole of the s rrounding country being rich in copper and tin.

There is a large deam din the neighbourhood for agricultural manures, lime, timber, slate, bricks, drain pipes and tiles, and more than all for coal and lime, none of which is now procurable except by means of expensive and difficult land carriage from Penzance; and the locality is eminently fitted for establishing a large factory or manufacturing premises for any of the many products of the present

pended.
The following table of estimated profits has been compiled with great care, their the profits are put at the lowest possible figure, whilst the expenses are cated at the highest.

ated at the highest.
The cost to the company of the entire property, consisting of freehold and lease-of lands, buildings, plant, machinery, &c., with all rights and privileges is 1,000, £6000 of which has been taken in fully paid up stoares.
No promotion money of any kind has been or will be paid.
The only contract entered into is one for the purchase of the property, between fulland H. ary Owen, of the one part, and Genge Wrifert, as tru-tees on behalf the company, of the other part, dated the 28th of 5ep ember, 1878. A copy of

this contract, with certificate of registration, and copies of the Memorandum of Association, plans of the property, and original report, may be seen at the offices of the company or at the solicitors.

Association, plans of the property, and original report, may be seen at the offices of the company or at the solicitors.

Which may be expected, and which statement is based on the actual prices paid for the stone from this quarry by the Trinity House for the Longship Lighthouse:

—Dressed ashlar, at 4s. 6d. per cubic foot; scappled, ls. 1ld.; and small, ls. 9d. per cubic foot. Of these prices one-fourth are net profits, which gives an average (omitting fractions) of 9s. 63/4. per ton.

Then, with a delivery of only 120 tons per week (which is a small computation) the result is 120 tons, at 9s, 63/4. making £57 5s., which for 52 weeks is

NB.—This delivery might easily be trebled, for the amount of output is limited only by the labour employed.

Lime—say, 20 tons per week—at a moderate profit of 3s. per ton, is £3 per week, which for 52 weeks is.

Nor is the burning of lime limited to 20 tons per week, for there is abundant spece for more kilms. When lime was available here it was found that the demand always exceeded the supply. Moreover, in point of quality, nothing equal to the Aberthaw lime made at Lamorna was procurable at or even in the vicinity of Penzance, and it was in great demand.

Coals offer a prospect of delivering at least 100 tons per week, and would yield a probable profit of 5s. per ton, which for 52 weeks would be ... 1300 Besides which there is a demand for slates, bricks, tiles, and drainpipes, and such like things, which would, at a very moderate computation, yield a further profit of (eay).

Giving a total of Deduct-Salaries, office expenses, &c. (say)

REPORT.

LAMORNA GRANITE QUARRY, AND HARBOUR, AND LAND,
NEAR PENZANCE, CORNWALL.

22, Whitehall place, London, S.W.
DEAR Sir,—In accordance with your instructions, I very recently went from
London and visited yo r Lamorna Harbour Works and Quarry, and the lands attached thereto, and made myself acquainted with all the circumstances attending
the property as far as it was necessary.

Lamorna Cove, at which the quarry and harbour are situated, is at the south
east point of the most westerly part of he coast of Cornwall, where a stream of wate ',
having a watershed of several square miles, discharges itself into the sea.
For some little distance up from the sea the property extends along the south
west side of this stream, and above that for about a quarter of a mile, the land extends along the north-eastern side of it. The former portion is held under lease
for a long term, and the latter portion is freehold, some of it being used as pastured
land, a small portion cultivated, and some left rough. The sea frontage extends
from the mouth of the stream at Lamorna Cove for about one third of a mile westwards, to a point whence the boundary of the property passes over the hill northwards, and ends at a point opposite to the stream before described, about 500 yards
from the harbour.

Within the area above described is contained a large mass of contained and the combile of the stream.

wards, to a point whence the boundary of the property passes over the hill morthwards, and ends at a point opposite to the stream before described, about 500 yards from the harbour.

Within the area above described is contained a large mass of granite which is capable of being worked, and for which the harbour forms an excellent outlet, not only for this property but for that north of it, and for adjacent quarries, belonging to other parties, now being work d on the opposite side of the valley on the northeast of the stream before referred to, where, as well as on this property, there is an inexhaustible quantity of granite of the best description.

The Lamorna Harbour Quarry has been worked, as I was informed, for about five years, and the quality of the stone for engineering and architectural purposes is unsurpassed; in proof of which it may be stated that it has been employed in building the present Longships Lighthouse, and some from the immediate neigh bourhood in the erection of the new Government Harbour Works, both at Portsmouth and Chatham, as also in construction of the Penzance Harbour and the public buildings in that town.

The harbour itself is formed by a line of quay wall, built parallel to the cliff, I ading to a jetty or pier, together 323 ft. in length, and enclosing at high water a sufficient area for carrying on a considerable trade, and affording to small shipping good shelter from the Atlantic. Its area might be increased inland at a very trifling expense by removing the large beach consisting of granite boulders, which water (ranging from 8 to 14 ft.) for small vessels to load alongside the jetty. The bottom is a fine sand, which is a good lying ground. It is perfectly sheltered from the water who had alongside the jetty. The bottom is a fine sand, which is a good lying ground. It is perfectly sheltered from the water who had alongside the jetty. The bottom is a fine sand, which is a good lying ground. It is perfectly sheltered from the water was been onestimated (and which are all of the

ally intended for a school-house for the children of the workpeople. There is also a good foreman's house.

The quarry has been worked for some distance into the hill, and about 30 ft. deep, and is proved to be the same fine granite that exists all over the area. The quality of the granite is a good grey kind, differing only from the Aberdeen in containing large quartz crys'als. I measured some of the blocks in the rough, as they were lying about, and as they came out of the bed, and I found them weigh from 3 to 5 tons. I estimate that there are about 200 tons in the rough state ready to ship, or capable of being wrought for use before being slipped.

The prices for getting out and squaring the stones is reasonable, and is the usual one paid for similar work in that country, whilst the advantages of the harbour for shipment are not possessed by any other quarry round the coast.

I understood that in consequence of the death of one of the late proprietors of the estate the operations came to a standstill, and the quarry has not been in work for about two years, but during the settlement of his affairs no deterioration has been suffered, or any depreciation in value, whilst the wharves and pier have had the great advantage of having their solidity and durability severely t-sted.

The granite trade was the primary and principal object of the harbour and works but there are additionol objects of very profitable traffic and trade there—e.g., lime, is in great request there, both for building and agricultural purposes, and can at present be procured only from Penzance, of an inferior quality, and at a price which for manuring purposes is prohibitory.

Coals in like manner are in great demand all around, and there is a market for some thousands of tons yearly, which might be supplied from Lamonn cleaper than from Penzance, by the long land carriage being saved.

Timber, alse bricks, and tiles of all kinds, and drain-pipes are in constant request, and would doubtless form the materials for a large and profitable trade; good foreman's house. The quarry his been worked for some distance into the hill, and about 30 ft. deep nd is proved to be the same fine granite that exists all over the area. The quality

at the estate is capable of supplying an unlimited quantity of the best granite. That the estate is capable of supplying an unlimited quantity of the best granite. That it has also an abundant supply of water, which may be turned to various see, and can if required be stored so as to very much horeuse the power now

available.

That the land affords with water-power sites for factories and manure stores, and for forming yards for coal, timber, lias stone for lime, bricks, iron, slates, and drain pipes, and other necessities, which would be imported by vessels trading for stone as back loading, and are very much wanted in that country, coals and lime being greatly in demand there, and there being no supply save by expensive land carriage.

being greatly in demand there, and there being no supply save by expensive land carriage.

That a tramway would afford access from the most distant part of the estate t the harbour in a cheap and expeditious manner.

That the extent and quality of the stone and the purposes for which it has already been used are the best guarantee of the market that it would command as before alluded to, and the charges would necessarily be very light, both for importing the articles mentioned above and for exporting the granite.

That with the facilities and the convenient arrangement offered by the works, and with a comparatively small capital, a trade might be at once started with the stone already lying there. The capital sunk would at once make a good return until the trade was developed and markets opened in various places for the sale of the stone on a large scale, as well as for supplying a traffic inwards for a large agricultural and mining population.

That the price for working and loading the stone would be light, and there is freedom from harbour dues of all kinds, and that there is no uncertainty as to the quality and quantity of the granite; that the accommodation and facilities for carrying on a large trade exist at present, without requiring the expenditure of any large capital; and there can be no doubt that if properly worked it would be facilities afforded by the possession of such a harbour must render any competition is such a traffic impossible.

This work has not set commenced.

To W. H. Owen, Esq. This work has not set commenced.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES,

ABERDAUNANT.—S. Toy, Nov. 6: The deep adit cross cut is now driven north 10 fms. 2 ft.; the ground is much the same for driving as it has been for several weeks past, consequently there is nothing to report.

ABERLUYN.—J. Roberts, Nov. 6: In the deep adit the rise is now up about 6 fms. from the level; I expect that we shall shortly get into the run of blends ground here. The lode in No. 2 adit is still looking well for blende. The winzs in No. 1 is looking very promising; this is on the face of the lode. By sluking perpendicular we shall cut through the lode in sluking. The surface operations are being prosecuted with vigour. The bed of the incline is finished, and the rails are being prosecuted with vigour. The bed of the incline is finished, and the rails are being prosecuted with vigour. The bed of the incline is finished, and the rails are being giald. The rails are already laid from the tip of the incline to the floors. The wheel-pit will be completed by the end of next week, and the crusher-house within the time specified.

BEFTWS Y-COED.—H. T. Haley, Nov. 5: The lode in the deep adit is looking well, the ground is very congenial for lead, and easy for driving, producing 20 own, of lead per fathom; this level is laying open a valuable piece of ground to storing when required. In cutting down the end of the winze the lode is well about 15 cwts. per fathom.—Shallow Adit: In stripping down the lode it will yield 12 owts. of lead per fathom, with a good mixture of blende. This (the castern) part of the mine is looking well, and the large heaps of ore lying at surface are being augmented daily, so that we shall have pleaty of work for the castern part of the mine is looking well, and the large heaps of ore lying at surface are being augmented daily, so that we shall have pleaty of work for the castern part of the mine is looking well, and the large heaps of ore lying at surface are being augmented daily, so that we shall have pleaty of work for the castern part of the mine is looking well, and

east end is worth 10% to 11%, per thing, and change to notice. The Blue Burrow shaft fathion. Elsewhere there is not much change to notice. The Blue Burrow shaft is measy ground for sinking.

BODIDRIS.—H. Hotchkiss, Nov. 6: There is no important change in our underground department since my last calling for special remarks. The 45 east, on the middle lode, and 60 rise are showing more favourable signs of an early improvement, and I am looking forward to an early discovery here. The shaftmen will complete the shaft to the 45 this week. The carpenters and masons are busy erecting shade over the engine, and all is going on regularly, and with all the change of the shade over the engine, and all is going on regularly, and with all the

will complete the shaft to the 45 this week. The carpenters and masons are busy erecting shade over the engine, and all is going on regularly, and with all the speed possible.

BWLCH UNITED.—N. Bray, Nov. 5: Since I wrote you last I am pleased to say the iode in the stope at the 60, east of Ritchie's shaft, has improved, and is now producing fine roots of lead ore, and the lode altogether looks very promising; there are other places at this level equally deserving attention, and likely to be attended with favourable results. The shaftmen are going on regularly with their contract of 6 fathoms to complete the shaft to the 100, at 190. per fathom; there is no particular alteration in the character of ground, but fair progress is being made in this most important bargain. Since Mr. Martin went through this mine both at surface and underground we have found it necessary to make and fix eight iron bridles to the large pumping. wheel, and eight others will be added in a tew days. All the other machinery is working well.

CLEMENTINA.—J. Roberts, W. Sandoe, Nov. 6: We expect to finish catting the ground for the large wheel by next Saturday week.

COMBMARTIN.—T. Harris, T. Comer, Nov. 2: The lode in the 15 fm. leve east 12 ft. wide, of veins of quartz and flookan, in which we find a little lead and mundic; set to four men, to drive at 4t. per fathom the month. The sadic cross-cut is in a hard run of capel, in which we find vughs letting out a lot of water, which is at present troublesome for driving; but we are hoping we are nearly through this belt, and that we shall meet with better ground shortly; set to drive by four men, at 6t. per fathom the month. The lode in the adic level going south-east, on caunter lode, is about 4 ft. wide, containing perty looking quartz and prian, in which we find good spots of lead and mundic, and has a very kindly appearance indeed; set to drive by two men, at 5t. sep rathom the month. It uses same level going north-west the lode is also about 4 ft. wide, with little easns of quartz and

CLOGAU.—W. Bell Davis, Nov. 1: The level in the branch lode has been driven

appearance for meeting with lead; set to drive by two men, at 53s. per fathom the month.

CLOGAU.—W. Bell Davis, Nov. 1: The level in the branch lode has been driven 4fms. 2ft. 6in. during the month; occasional stones containing rich gold were met with until the last fathom. The ground has now changed, there being every indication that we have at last driven through the shoot of payable ground. From No. 7 stope about half the returns for the month were obtained; the ground in the end of the stope is looking well. The men have, in the last few days of the month, cut into good gold in the 15 fm. stope. More ground will have to be broken before we can form an opinion on the value of this shoot.—Reduction: The Britten pans crushed 500 lbs. of ore, which yielded 79 czs. 1 dwt. of gold.

CWMYSTWYHA.—Nov. 6: In Michell's cross-cut during the past week we have had a very hard and tight bed of ground to contend with, which has prevented us driving so much ground as previously; the ground still continues dry. In Gill's cross-cut, driving north, fair progress is being made, and somessail branches have but out through, but of no value. The lode in the two stopes, over Gill's upper level, is producing 1 ton of lead ore per fathom each. In the two stopes, over Michell's level, the lode is 2 ft. wide, worth 18 owts, of lead ore per fathom each. In the stope in the 12, over Michell's, is 3ft. wide, worth 1 lowes, and we are cutting out the north side to ascertain its value further west. In the stope over Level Fawr, on the copper lode, the lode is 2 ft. wide, worth 12 owts. of lead ore per fathom. Our seven tribute pitches are producing their usual quantity of lead ore; the men are working well, and some of them making fair wages. All our machinery continue in good working order, but the weather for some time has been very hindering for surface work, epocially the dressing department, but every effort has been made to keep the dressing going. A favourable change in the weather has again taken place. Samples of 40 tons of lead

Iressing floors.

D'EREBBY CONSOLS—J. Roberts, Wm. Sandoe, Nov. 6: There is no partbular change in the end driving west; the lode seems, however, to be split, the
main part having good strong spots of lead, blende, and sulphur, and still letting

cular change in the end driving west; the lode seems, newever, to said liciting out a flood of water.

D'ERE-SBY MOUNTAIN.—J. Roberts, W. Sandoe, Nov. 6: No. 1 Adit: The lode here is larger than it has been for some weeks past, yielding a mixture of lead and blende and gossan—a kindly lode. In No. 3 adit the lode in the rie is 2 ft. wide, and producing a good mixture of lead and blende. The stope in No. 4 is without any change. The winze from No. 4 to No. 5 is progressing favourably. No. 5 adit is cleared and secured 20 fathoms from No. 8 adit shaft. The sardae operations are progressing as favourably as can be expected. The stone-breaker is in its place and ready for working as soon as the floor Is made about it, when we shall commence treating the stuff from No. 4 stope.

EAST DARREN.—Nov. 6: In the cross-cut south, in the 92 east, the ground continues favourable for exploring. In the 92 east, on the south branch, the lode is 3 ft. wide, yielding saving work for dressing. In the 80 east, on the south lode, the lode at present is small and poor. In the 50 west, on the south lode, the lode at present is small and poor. In the 50 west, on the south lode, the lode at ore, yielding of the latter 10 cwis.per fm. The 80, east of cross cut south, so communicated to the level west of eastern end. In the sams level, west of cross-cut, the lode is 4 ft. wide, rather fallen off in value at present juicing good saving work for the floors. The stopes over the 80 east, on the south lode, continue to look well, yielding on an average 1½ ton of lead ore per fallom. The tribute pitches under the 104 are becoming poor, and nearly worked out. The machinery is in good order, and drawing and dressing progressing satisfactoriy.

EAST VAN.—W. Williams, Nov. 6: We have driven west of cross-cut upon the south side of the lode 7½ fms., and so far have encountered no lead worth value, when we have driven 8 or 6 fms. more we shall cross north to prove the value full the lode. When we have driven 8 or 6 fms. more we shall cross north to p

through it.

EAST WHEAL LOVELL.—Richard Quentrall, Nov. 6: In the south part of the sett we have commenced sinking below the 12 on the south part of the sett we have commenced sinking below the 12 on the south lode, which is large and of a very promising character for this depth. The north lode in the 12 east is just the same as last reported. The lode in Sworgan, sinking below the sidi, contains a little more tin, and the ground is very favourable; sinking at 21, per fin.

FRONGUCH (Special Report).—Nicholas Bray, Oct. 22: In reply to you letter asking for a report from me I beg to say that I have on several occasions while the last twelve months inspected this mining property for the owner of the soil, the Earl of Lisburne, and from the nature of the dults involved I have had make myself thoroughly acquainted with all details both at surface and underground. I, therefore, now suomit the following particulars, preuming that is your case full details are not required. The deepest point of working is Vaghta shaft, sunk a few fathoms below the 142, but not on the productive part of the lode, it being so large at this point, and generally throughout than the south part of the lode, and judging from a cross-cut opposite the shuft the mise part of the lode, and judging from a cross-cut opposite the shuft the mise part of the lode, and judging from a cross-cut opposite the shuft the mise part of the lode, and judging from a cross-cut opposite the shuft the mise part of the lode, and system of ground to enter, and with every prospect of large open new ore ground, judging from the immense deposite sextracted overhead open new ore ground, judging from the immense deposite extracted overhead open new ore ground, judging from the immense deposite extracted overhead open new ore stone of united ground to enter, and with every prospect of spine open new ore ground, judging from the immense deposite enter was a brottom level, there of my visit to the mise a few ments since there was a brottom level, there of my visit to the brough it.

EAST WHEAL LOVELL.—Richard Quentrall, Nov. 6: In the south part of the

wall of effect as and sto The me making change. is a cha GOGi shaft, th pitch ov 15 cwts. east of t in the pi 12 cwts. Taylor's 60 fm. le working will prodevel, 30

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rail of this part, which contains a very kindly branch of mundle and ore about it wide, where we purpose to drive east on its course some short distance to flect an early communication with the workings above. The lode in the winze at stope going down below the 105 is without change; worth 20/, per fathom, the men formerly engaged in the back stopes of the 105 are removed to assist in mixing the communication with the bottom level. All other points are without

the men formerly engaged in the bottom level. All other points are without change.

LERROY.—R. Rowe, Nov. 5: I have now come from the mine, and can only cLERROY.—R. Rowe, Nov. 5: I have now come from the mine, and can only cLERROY.—R. Rowe, Nov. 5: I have now come from the mine, and can only clearly the same large lode in the shaft, about 5 ft. wide, containing a mixture of blendange for the better, and this we hope for by continued sinking.

GOGHNAN.—Nov. 6: In the pitch over the 130, east and west of the western shaft, the lode is 8 to 10 ft. wide, producing 16 cwts. of ore per fathom. In the blaft, the lode is 8 to 10 ft. wide, producing 16 cwts. of ore per fathom. In the pitch over the 110 fm. level, 16 fms. 15 cwts. of ore per fathom. The lode in the pitch over the 110 fm. level, 16 fms. 15 cwts. of ore per fathom. The lode is the pitch over the 100 fm. level, 10 fms. west of the western shaft, is yielding in the pitch over the 100 fm. level, 10 fms. west of the western shaft, is yielding in the pitch over the 100 fm. level, 10 fms. west of the western shaft, is yielding lately in the pitch over the 100 fm. level, 10 fms. west of the western shaft, is yielding lately in the pitch over the same level, 20 fathoms west of 12 cwts. of ore per fathom. The pitch over the polouce from 8 to 10 cwts. of ore per fathom. In the pitch over the 100 fm. level, 40 fathoms west of Taylor's shaft, where the lode will produce from 8 to 10 cwts. of ore per fathom. In the pitch over the 60 fm. level, 30 fathoms east of Taylor's shaft, the lode yields 12 cwts. of ore per fathom. In the pitch over the 26 fm. level, 30 fathoms east of Taylor's shaft, will produce \$f\$ ton of ore per fathom. The lode in the pitch over the 26 fm. level, 30 fathoms east of Taylor's shaft, will produce \$f\$ ton of ore per fathom. The lode in the pitch over the 26 fm. level, 30 fathoms east of Taylor's shaft, will produce \$f\$ ton of ore per fathom. The lovel in the pitch over the 26 fm. level, 30 fathoms east of Taylor's shaft, will produce \$f\$ ton of

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Nov. 6: There is nothing new in the mine calling for any remark since t of last week. Should any change take place I will advise you. Saturithe 9th inst., being settling day, a full report of the mine shall be sent

so sext, the sun inst., being settling day, a full report of the mine shall be sent lest week.

MONYDD GORDDU.—James G. Green, Nov. 6: There is noparticular change of notice in any of our underground bargains. We delivered the remainder of the 20 tons of lead ore sold to Messrs. Walker Parker on Saturday, and are getting in fairly well with anotter parcel.

MORFA DU —T. Mitchell, Nov. 7: The bottom level continues to look very sell, yielding 6 tons of good bluestone per fathom. We are now making preparations to commence raising over at the 26.

NEW CATHED AL —S. Davey, Nov. 4: We are through the cross course (adit as improving both in size and as it is leaving the influence of the cross-course it will add considerably to the prospects of the mine, as it is extending through allow ground. It is what we have been for a length of time aiming at, to have NORTH TREATED ALL—S. ORTH.

und. It is what we have been for a length of time ariting at, where it west of the cross course. TRESKERBY—Martin George, Nov. 6: We have finished cutting viting and cusing of Doctor's engine-shaft, putling in pent-house, and il complete for drawing from the 24. We have resumed the sinking engine-shaft for the sinking and in the same of the

The cross course, and is now 1½ ft. wide, yielding stones of copper ore, but bot to value. The lode in the winze, sinkling below the 12, is 4½ ft. wide, and worth 1½ ton of copper ore per fathom. The lode in the 117 fm. level, driving east of Doctor's engine shaft, is 4 ft. wide; this end is improving as we are geting back under the ore ground gone down in the bottom of the adit, and is now worth 1 ton of copper ore per fathom.

PANDORA—H. Nottingham, Nov. 6: New Lode: No. 2 stope, in back of the 25 south, locks, which is now lying broken here. We have also resumed the driving out the leasting that is now lying broken here. We have also resumed the driving out the lockwall side of the lode going sonth, there being about 9 ft. of ground standing between this and the main level, which, though mixed through with a little lead and summit of blende, will not pay to work upon now. We have a good mixture of lead and blende in this driving, worth along the bottom ½ ton of lead and level, which shows the lode to be widening downwards, or that of the 25, north of shaft cross cut, is worth 1 ton of lead and ½ ton of blende per fathom; and shaftag resumed. The one north of shaft cross cut, is worth 1 ton of lead and and 15 cwts. A shaften and 1 the consent of shaft cross cut, is worth 1 ton of lead and 15 cwts. A fathom, which we have get up a full summer and 1 here 25 south, on the last chapter of the 26, north of shaft cross cut is worth 1 ton of lead and 4 to 1 lead and 15 cwts. Of lead and 15 cwts. Of lead and 1 leaves the shaften and No. 2, 8 cwts. of lead and 16 cwts. of lead and 1 leaves the shaften consent of of the 33, and hope to be at work here again in a large fair progress in drevsing, we intend getting up steam to try the engine to-fract of the 25 south, on we have get up a full supply of stuff for the floors, and are making fair progress in drevsing, we intend getting up steam to try the engine to-fract of the 25 south, on the cross cut.

changing in appearance, and looking more hospful, still producing small attings of Schiller Richard. The Richard. Chas. Will time, New 7: The 30 to all on the kert with the Schiller Richard Richard

the 90 west for the week. All the above ends are driving in bard ground. No. 1 stope, in the back of the 90, is worth 4°. Der fathom for width of lode. No. 2 stope in back, east from winze, is worth 20. Der fathom. No. 3 stope in back, west from winze, is worth 40. Per fathom for width of lode. In the 80 west the lode is making its appearance, spotted with lead. The stope in the back of the 80 is worth for lead and copper ores 20. per fathom. The 70 cross cut is driving in hard vein rock, with strings of carbonate of lime, which is 1 favourable indication for a discovery of lead.

SOUTH DE ERESBY.—W. Bennetts, T. Bennetts, Nov. 6: Setting Report: The cross-cut at the No. 1 adit is set to two men, 2 fms. stent, at 100s. per fathom. The ground for the last day or so has been very wet, with good stones of sulphur mundle. The No. 2 adit level is let to four men to drive by the side of the No. 1 lode, 3 fms. stent, at 100s. per fathom. We have put two men to strip down the No. 1 lode, and are pleased to say the lode looks well for lead, more especially in the bottom part of the level. To-day we broke from the bottom of the level come solid lump of lead, which weighed 20 lbs., and by the appearance of the lode it will make a rich course of lead at deeper levels. We have let to drive on large lode to four men, 2 fms. stent, at 10s. per fathom. There is some nice lead and blende at the bottom of this level.

SOUTH MOLTON CONSOLS.—T. May, Nov. 5: We have an improved appearance from last week in our adit end: the ground is a nice blue leady colour, with crossings of mundic and quartz, which we consider a very favourable sign. The driving continues favourable.

driving continues favourable.

SOUTH ROMAN GRAVELS.—John W. Powning, Nov. 7; Shelve: Good progress is now being made in the winze sinking below the deep sall south, on Saw pit vein, and I am pleased to say the lode is improving as depth is attained. We have out into the spar course about 5 ft., which is nicely mixed with lead—a decided improvement to anything before seen in the mine. The engine and pitwork

are working very satisfactorily, and there is no difficulty whatever to maintain the country of the country of

ductive. To sink the new shaft below surface by nine men, at 18t. per fathom; tode 9 in. wide, yielding mundie and a little copper, but not sufficient of either to value.

WHEAL GRENVILLE.—T. Hodge, Nov. 2: Setting Report: We set the following bargains to-day for two months:—Goold's Shaft: The shaft is set to nine men, at 32t. per fathom. The 150 east end, by six men, at 8t. 10s. per fathom. The 150 east end, by six men, at 8t. 10s. per fathom. The 150 east end, by six men, at 8t. 10s. per fathom. The 150 west, by six men, at 5s. 6d. per ton. To rise in the back of the 150 by four men, at 10t. per fathom. Ward's stope in the back of the 150 west, by 12 men, at 7s. per ton. Martin's stope in the back of the 150 west, by 12 men, at 7s. per ton. Martin's stope in the back of the 150 west, by 12 men, at 7s. per ton. The 140 to drive west, by four men, at 9t. per fathom. To stope the bitom of said level, by two men, at 7s. per fathom. The 140 to drive east, by six men, at 4t. 10s. per fathom. Northey's stope in the back of the 140 east, by six men, at 4t. 10s. per fathom. Northey's stope in the back of the 140 east, by six men, at 4t. 10s. per fathom. To rise in the back of said level, by six men, at 8t. per fathom. The 140 to drive east of the western shaft, by four men, at 10t. per fathom. A stope in back of said level, by six men, at 6s. 6d. per ton. The 130 east end is set to two men, at 7t. per fathom. All the filling, by three men, at 4t. 8s. per month, the takers to pay all costs. All the filling, by three men, at 9t. 8s. per month, the takers to pay all costs.—If the same as last reported.

WHE 4L UNY.—W. Rich, Matthew Rogers, Nov. 4: The lode in the 60 west is worth 9t. per fathom. The wince in the bottom of the 130 east is worth 10t. per fathom. The wince in the bottom of the 130 east is worth 10t. per fathom. The life end west is worth 12t. per fathom. The 17th end one sate was a sust is worth 12t. per fathom. The 17th end one of the 130 east is worth 9t. per fathom. The 16th end west is worth 12t. per fa

is not quite so spind as I could wish for. In the 22 cast we are making very y progress, and another month or six weeks will bring us underneath the roore ground at Tippett's shaft, when we shall cross out the lode to full wild order to prove its size and value. The winze below this level is still yielding good ore, but the water has not yet been drained by the driving of the 46. tribute pitches are looking pretty well. We have sold since my last report Messrs. Walker, Parker, and Co. 4 tons of lead ore, and we can sell if neces 30 tons more during the current month.

Gold of Queensland.—The report of the Mining Department for the year 1877 shows that Queensland has a gold-mining population of 17,903, including 4634 Europeans and 13,269 Chinese. They obtained in the year 373,266 ozs. of gold, which, at an average price of 3l. 10s. per ounce, represents 1,306,43ll; the average yield of gold per man being 20 ozs. 17 dwt., worth 72l. 19s. 6d. The six principal reefing districts, however, of Charters Towers, Gympic, Hodgkinson, Ravenswood, Palmer, and Etheridge gave an average yield of nearly 49 ozs., or 171l, per man. Although no new discoveries were made during the year, yet the yield of gold showed an increase of 20,000 ozs. With machinery valued only at 237,890l., no less than 88,904 tons of quartz were raised and crushed for a yield of 168,658 ozs. or an average of almost 2 ozs. per ton. The recently-discovered field at Lukinville, Lower Palmer, has now a population of about 7000 Chinese and 500 European miners. The auriferous country has been traced down the Palmer for nearly 100 miles, and it said that the gulleys and ravines back from the river will yield heavy returns of gold when the wet season sets in. Riots occurred recently among the Chinese miners, and it is reported that four men have been killed and a large number wounded; gambling and mining disputes are and a large number wounded; gambling and mining disputes are the attributed causes.

PARTS MOUNTAIN. T. Mitchell, Nov. 7: The ground in the 9) south is

THE METAL TRADE.

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(ESTABLISHED 1849.)

The Mining Market: Brices of Metals, Ores, &c.

META	L MARKET-LONDON, Nov. 8, 1878.
Inon. £ s. d. £ s. d	TIN. £ s. d. £ s. d
Pig, GMB, f.o.b., Clyde 2 36	English, ingot, f.o.b 66 0 0- 67 0 0
Scotch, all No. 1 2 5 0- 3 10 0	,, bars ,, 67 0 0- 68 0 0
Bars, Welsh, f.o.b. Wales 5 0 0-	,, refined 68 0 0- 69 0 0
in London, 5 10 0- 5 15 0	Australian 63 00
Btafford., , . 6 10 0- 7 0 0	Banca 64 0 0- (nom.) Straits 62 15 0- 63 0 0
in Tyne or Tees 5 5 0- 5 10 0	Straits 62 15 0- 63 0 0
, Swedish, London 8 15 0- 9 5 0	COPPER,
Rails, Welsh, at works 4 15 0-	Tough cake and ingot. 62 10 0- 64 0 8
Sheets, Staff., in London 8 5 0-	Best selected 63 10 0- 65 10 0
Plates, ship., in London 6 12 6- 6 15 0	Sheets and sheathing, 68 0 0
Hoops, Staff 7 5 0- 7 10 0	Fiat Bottoms 71 0 0- 72 0 0
Hail rods, Staff. in Lon. 6 0 0 - 6 10 0	Wallaroo 67 0 0
STEEL.	Burra, or P.C.C 64 10 0 65 0 0
English, spring13 10 0-19 0 0	Other brands 62 0 0- 64 0 0
east30 0 0-40 0 0	Chili bars, g.o.b 57 10 0
Swedish, keg14 0 0	PHOSPHOR BRONZE.
, fag. ham15 0 0	Bearing metal £105 0 0
LEAD.	Other alloys £110 0 0- 125 0 0
English, pig, common14 17 6-	
" L.B15 5 0- —	BRASS.
,, W.B16 0 0	Wire 7 d 7½d.
, sheet and bar16 0 0-16 5 0	Tubes
,, pipe16 10 0	Sheets 8 - 81/4
,, red	Yel. met. sheath. & sheets. 5% - 6%
white24 0 0-26 0 0	Nails composition 8 - 81/4
patent shot19 10 0 19 15 0	TIN-PLATES.* per box.
Spanish14 10 0-14 15 0	
NICKEL.	Charcoal, 1st quality 1 0 0- 1 2
Metal, per cwt	2nd quality 0 19 0- 1 0
	Coke, 1st quality 0 16 0-
Flasks of 75 lbs., ware 6 15 0-	3nd quality 0 14 0- 0 16 (
SPELTER.	Blackper ton 16 0 0- 16 10 (
Bliesian	Canada, Staff. or Gla., 11 00-12 0
English, Swansea 17 10 0- 17 15 0	Black Taggers 450 of)
Sheet zinc	Black Taggers, 450 of 30 0 0-
* At the works, 1s. to 1s. ed. per box	less for ordinary; 10s. per ton less for

* At the works, is. to is. 6d. per box less for ordinary; 10s. per ton less for Canada; IX 6s. per box more than 10 quoted above, and add 6s. for each X. Terne-plate 2s. per box below tin-plates of similar brands.

*At the works, 1s. to 1s. 6d. per box less for ordinary; 10s. per ton less for Canada; 1X Ss. per box more than 1G queted above, and add 6s. for each X. Terue-plates 2s. per box below the plates of similar brands.

REMARKS.—The present dulness in trade seems to be occasioned in great part from an unnecessary amount of fear of the instability and insecurity of things generally. A good many people have lost their money, and, therefore, are most likely unable to operate, or if they have not realised their loss they are so heavily incumbered with superfluous and unsaleable stock that they are perfectly help-less; but at the same time there are a number who are quite free and possess means, and if they came into our market just now would gain an exceedingly great advantage over and above their predecessors, and although political, financial, and commercial affairs are still a little unsettled yet there is nothing apparently to create alarm. The decline in trade has been gradual, which has afforded an opportunity for all prudent people to economies their expenses, and as re trenchments have no doubt been made to a very great extent the position of peoples ognitive fright in October, is now over a series. The smash up of rotten denced by the easier state of the money market; and then, again, the Breed, as evidenced by the easier state of the money market; and then, again, the Breed, as evidenced by the easier state of the money market; and then, again, the Breed, as evidenced by the easier state of the money market, and then, again, the Breed, as evidenced by the easier state of the money market, and then, again, the Breed, as evidenced by the easier state of the money market, and then, again, the Breed, as evidenced by the easier state of the money market, and then, again, the Breed, as evidenced by the easier state of the money market, and then such as a state of the proper stat

cheap prices are no ill store, it is the high-priced stock which entails losses; but when a stock can be obtained cheaply it should always be made plentiful. We strongly urge consumers, deslers, shippers, and, in fact the whole trade, whether they be retail, wholesale, or shipping, to come forward with the least possible delay and secure bargains. We wenture to press upon all who can afford to buy to do so without have less previously incurs and the property of the property

nercial affairs of a bona fide and promising character, and in that resuscitation of trade will speedily follow.

smoare; an ecommenca starts or a come star and promissing characters, and in that cast this general resuscitation of rices will specify follow.

The reduced prices fail to produce their usual and desired effect of stimulating the demand, and there is evidently something radically wrong at work which checks the due development of the trade, and defeated the unessing efforts of effects or store viating. If the stagnation of the start of the star

Increase ...
Total decrease for 1878
Imports of Middlesborough pig-iron into Grangemouth:—
For the week ending Nov. 3, 1877
For the week ending Nov. 2, 1878

Tin,—This metal occupies the most prominent position in our market at the present time, and, therefore, is deserving of the leading place in our columns. Since the attention of the trade is so particularly drawn to it we deem a more lengthened report than ordinary will be read with interest and satisfaction; and considering to what a serious extent our tin mining districts have suffered during the last year or two, we have considerable pleasure in pointing out the wonderful change which has lately come over our market, a change of the greatest importance and of the highest value, and on which all sellers should combine in upholding and value, and on which all sellers should combine in upholding and supporting. The enhanced prices are not detrimental to consumption, otherwise we should not recommend them, and there is no fear of the demand falling off yet awhile on that account, and we feel strongly impressed that in a very short space of time 70% will soon be reached. Consumers have been duly warned by us of the coming scarcity, and although we do not predict famine prices, yet we think the trade may look for considerable higher rates. We maintain, however, more than that. As regards English tin there was, as is well known, a large surplus stock at the beginning of the year, which has been absorbed in addition to the usual supplies of this kind. The deliveries or consumption will assuredly be more than 1200 tons per month, as consumers are as bare of stock as they can possibly be, owing to the constantly declining prices and the consequent disappointing purchases. Moderately higher prices will neither check consumption nor accelerate production.

This is amply proved by experience. The figures at the time of the last great rise from 1868 to 1878, when the price reached about 1501. Taking from six monehs to six months the deliveries

re:—
First half, 1868 tons 4,700
Second ,, 1868 5,900
First , 1869 4,300
Second ,, 1869 5,500
First ,, 1870 5,500 Becond half 1870 First ,, 1871 Second ,, 1871 First ,, 1872 Second ,, 1872

clearly showing that the high prices did not check cons

tons. The shipments from the Straits in the last two months of last year were 690 tons, and we fancy they will reach about the same this year.

The shipments from Australia in the two last months of last year were 2550 tons; but from the best sources of information we may confidently assert that they will not surpass 1600 tons this year. It is not to be forgotten that last year most of the Australian tin was shipped by sailing vessels, which generally leave in November—March (the October shipments, therefore, were only 120 tons), while this year nearly all the tin has been shipped by steamers, which leave regularly, and, therefore, make the sailings of tin also more regular. The deliveries for November and December we compute at 2400 tons minimum, for there is no doubt that consumption has steadily increased, and will remain at its highest. A number of new uses have been found for tin, and many manufactories built which use this metal for purposes not known before, The probable stock on Dec. 31, 1878, will be 11,430 tons, while the stock on Dec. 31, 1877, was 11,787 tsns; therefore, a decrease, or a proof that consumption has, to say the least, equalised the large production, quite regardless of the price consumers have to pay for it. As regards production, it is to be hoped that it will keep pace with consumption, although the latter has been increasing lately much faster than the former. Should this state of things continue the stock may decrease to an alarming extent, and the prices approach to a much higher level, and may even reach to that which ranged in 1872 when 150% was considered the normal value. The shipstock may decrease to an alarming extent, and the prices pproach to a much higher level, and may even reach to that which ranged in 1872, when 150*l*. was considered the normal value. The shipments of tin from Australia during October have just been telegraphed as 744 tons. Some telegrams say 620 tons, which is supposed to include the Nineveh.

COPPER.—This market has temporarily fallen into obscurity, and all interest has ceased to be taken in it for the time being; the deliveries are not so satisfactory as could be wished, and the charters for the last half of October from the West Coast are 2600 tons. The Indian exchange being low and weak causes merchants to withhold

Indian exchange being low and weak causes merchants to withhold their orders for manufactured and yellow metal, and the few orders that might be obtained remain at impracticable limits.

LEAD.—The tendency of this market appears downward, although prices are so very low, out it is thought by those best acquainted with the trade that a sharp reaction might set in at any moment.

TIN-PLATES.—The demand is improving, and higher prices have been paid for cokes.

been paid for cokes.

SPELTER.—Prices easier, and sellers of Silecian at 2s. 6d. to 5s, per ton less than last week. Hard in moderate demand, and prices

varying according to brand.

QUICKSILVER has been very slow of sale, and the tendency is still

THE IRON TRADE.—(Griffiths's Weekly Report).—Friday evening. The Glasgow market for Scotch pig-iron has been steady this week. The market opened this morning at 43s. 6½d., improved to 43s. 84. cash, but closed again rather easier, with sellers at 43s. 7d. prompt. cash, and buyers in a week. A reduction this week of about 3d. per ton. We quote makers' No. 1 iron:—Gartaherric, 5la. 6d.; Coltness, 53s.; Calder, 52s. 6d.; Lungloan, 53s. 6d.; Summerle, 49s. 6d.; Monkland, 45s. 6d.; 6b. 6 Glasgow; Glengarnock, 49s.; Egington, 63s. 4. o.b. Ardrossan; Shotts, 53s., 4. o.b. Leith. We have no material change to report in the iron trade this week. Orders for the normal demand are constantly sent from this market down to the works. We have had a little more activity in orders for the Government orders have also arrived from India for the Earl of Doulty, at Bond Oak, and Kobert Heath and Bon have received orders from this source. Some Government orders have also arrived from India for the best bars and specialities. The demand for sheet-iron is the most steady, and there has been a good business done in this class for galvanising purposes. All export orders for common bars, and most of them for nail-rods, our merchants are getting executed by Belgian firms. Alexander Sohler and Co., of Monceau-on-Bambre, took an ordery sterday for 1200 tons of nail-rods in this city for a foreign market. The general feeling of the market is quieter, and orders are given out with more caused prefices unchanged. The works in the country are rarely busy. Lowmoor, the Earl of Dudley's Round Oak, and Robert Heath and Bon, are exceptions to this mid the contragency of the same state as when we last wrote. This is now worth 60t. per ton, but the make the parameter of the same state as when we last wrote. The in-plates will be reduced one-third from the beginning of this month, which will diminish the consumption by 25 tons per week, or 1300 tons per annum. The Swansea agreement is to hold for twelve months. THE IRON TRADE .- (Griffiths's Weekly Report) .- Friday evening.

diminish the consumption by 25 tons per week, or 1300 tons per annum. The Swansea agreement is to hold for twelve months.

The MINING SHARE MARKET has again relapsed into general dulness; there is scarcely any business doing, and prices remain stationary and nominal.

TIM MINES shown no change, and although tin itself has risen in price considerably within the last few days, the standard for ore has not been further advanced. Dolcoaths are quoted 28 to 39; Carn Brea, 25 to 49; Tincroft, 8 to 9; Cook's Kitchen, 123. 6d. to 173. 6d; South Condurrow, 10½ to 10½; Wheal Agar, 4 to 4½; Wheal Grenville, 2½ to 3. At West Godolphin meeting the accounts showed a loss of 577% on five months' working, and a debit balance of 473%; a call of 2s. per share was made. East Pool, 3½ to 9; at the meeting, on Monday, the accounts for three months showed a profit of 1194%, out of which the balance of the old "suspense account" (683%) was paid off, a dividend of 1s. 6d. per share declared, and a balance carried forward of 22%. The costs for three months were 4208%; merchants' bills, &c., 2100%; the returns—tin, 356%; tinstone, 182%; arsenic, 600%; copper, 1849%. The report was favourable, and the mine never looked better than at present. At Wheal Owles meeting a call of 12%, 10s. per share was made. The accounts showed a loss on four months'working of 225%, and a debit balance of 20,193%. The stock of tin in hand is said to exceed 400 tons. The mine is said to be looking well. At West Policie there was a debit balance of 1979%, and a call of 1% per share was made. Penstruthal, 3s. to 5s.; South Frances, 5½ to 5½; West Based, 2 to 2½; West Frances, 2½ to 2½; West Krances, 2½ to 2½; Wheal Kitty, 1 to 1½ wheal Peever, 6 to 6½; Wheal Uny, 12s. 6d. to 15s.

COPPER MINES are quiet, and show no great change. Devon Great Peever, 6 to 6½ wheal Uny, 12s. 6d. to 15s.

COPPER MINES are the most active, but prices for the most partare meeting, on Friday, is to be made special, to decide upon furnity of the state of the state of the state of the

ther pro stone-br leadstuff still lets 12; the s retarning to 1; to 1; to 1; to 1; Leadhi will be f sales of lead and 31.2844. I 66771. 12s. 3s. per sh balance i Chiverton ton. West 13 to 21: Red Rock Cwmystw FOREIG Chontales Don Pedre 44, to 6s.; Zealand K Phillip, 9s 300; Sant ville, 21 t

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ing is to be held on Nov. 19 to consider the propriety of any further prosecution of the mine. Glenroy, \(\frac{3}{8} \) to \(\frac{5}{8} \); the lode in the shaft is 5 ft. wide, and has good indications for ore.

Bookhope, \(\frac{3}{8} \) to \(\frac{5}{8} \). D'Eresby Mountain, 30 to 40 per 1024th; the stope-braker will shortly go to work upon the accumulation of leadstuff at No. 4 stope. D'Eresby Consols, 8 to 10; the east and morth lode upon which they are driving to cut the Cobbler's lode still lets out a flood of water, and is easier to work. Aberllyn, 10 to 12; the surface operations are being hurried on, so as to get to work returning the blende as soon as possible. South Roman Gravels, \(\frac{1}{2} \) to \(\frac{3}{2} \); the small engine has got to work, and sinking commenced on the Sawpit vein, which is improving beyond anything before seen in the mine.

10 4; the small engine has got to work, and sinking commenced on the Sawpit vein, which is improving beyond anything before gen in the mine.

Leadhills have declined to 1½, 2; full particulars of the meeting will be found in another column. The accounts presented show sales of lead ore for the year ending June 30, 29,012½. 8s. 10d.; lead and lead ore in stock; 6677½. 12s. The expenditure was 31,28½. 19s. 10d., leaving a profit on the year (taking credit for 677½. 12s. ore in stock) of 4403½. 1s. 2d., out of which a dividend of 38, per share: 3062½. 10s. was declared in April last, and there is a balance in hand of 147½. 0s. 5d. Tyn-y-Fron, 20%. to 30s.; West Oniverton, 15s. to 20s.; West Pateley, 1½ to 2½. Grogwinion, 2 to 2½; this mine sold 100 tons of lead ore on the 5th for 9½. 6s. per ton. West Wye Valley, 2 to 2½; sells to-day 40 tons. Wye Valley, 1½ to 2½; Caron, 2 to 2½; Hartington, 1½ to 2; Mawston, 50 to 55; Red Rock, 2 to 2½; Frongoch, 2 to 2½; St. Harmon, 2 to 3; South Camystwith. 2 to 3.

FOREIGN MINES.—Cape Copper, 27½ to 32½; Colorado, 2 to 2½; Chontales, 10s. to 12s. 6d.; Blue Tent, 2½ to 3; Hultafall, 3 to 3½; Don Pedro, 8s. to 10s.; Eberhardt and Aurora, 3½ to 4; Flagstaff, 4s. to 6s.; Frontino and Bolivia, 2 to 2½; Javali, 4s. to 6s.; New Yolley, 2½ to 2½; to 11s.; Richmond, 9½ to 10½; St. John del Rey, 290 to 30; Santa Barbara, 30s. to 35s.; Pitanqui, par to ½ prem. Placer-ille, 2½ to 2½; both shaft and winze are going down in good ore.

300; Santa Barbara, 30s. to 30s.; Pitanqui, par to \(\frac{1}{2} \) prem. Placerville, \(2\frac{1}{3} \) to the shaft and winze are going down in good ore.

The Market for Mine Shares on the Stock Exchange has altogether relapsed during the week, it being at present almost impracticable to do any business whatever, and prices with very few exceptions are merely nominal, owing to the almost complete absence of buyers at any price. The dealings to-day were confined to South Condurrow at 10\frac{1}{4}\), New Quebrada at 11. 11s. 3d., Richmond at 10, and Rio Tinto 7 per cent. bonds at 14\frac{1}{18}\), and shares at 3\frac{1}{3}\.

Subscription lists will be opened on Monday and Tuesday only for 8,500,000. Five per Cent. Egyptian State-Domain Mortgage Bods at the price of 73l. for every 100l. nominal capital, which is equivalent to 6l. 17s. per cent. interest on the investment. The terms of the issue are given in the prospectus, published in another column of to-day's Journal, and applications are to be made to Messrs. N. M. Rothschild and Sons, in London, and Messrs. Rothschild Brothers, in Paris. It is expressly stated that neither the British nor Fands Governments accept any llability to pay in any contingency the interest of their functions without the consent of the Governments nominating beauties of their functions without the consent of the Governments nominating beauties and his family, and to be hypothecated in security for the loan, is 10\text{13.50}\), which is alone nearly sufficient to pay 5 per cent. on the entire in property should not suffice to meet the amount required for the service as a Egyptian, and the other two nominated by the English and French Governments The hypothecated property is to be managed by three persons—eas an Egyptian, and the other two nominated by the English and French Gerements. The hypothecated property is to be managed by three persons—eas an Egyptian, and the other two nominated by the English and French Gerements respectively. A certificate from the Cadi of Cairo, dul

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The Colonial Trusts Corporation case will, it is understood, come before the Master of the Rolls to-morrow (Saturday), and every shareholder should exert himself to see that no material fact consected with the lamentable affairs of the corporation are kept from his lordship's knowledge with a view to screen any individuals to the prejudice of the general body of shareholders. Can it be true that as long sizes a August Mesars. Kemp, Ford, and Co., after due examination, by desire of Mr. W. D. Freshield and Lord Bury, reported unfavourably on the condition of the Colonial mortgages standing in the company's name, and yet no steps were taken to have a complete audit of the whole of the corporation's assets, or to attempt the restoration of the company? It has been stated that the present great lock up of capital is spread over a period of years. In connection with the Transal Gold Mining Company, 54,413.*; the Mysore Coffee, 6412; T. D. Meppen, 24,72; Dyllfe Lead Mining, 3319.*; Penang Plantations, 11,985.*; Sasso Fore Collieries, 11,826.*; Carbon Company (including debenture debt.) 34,836.*; Mesas. Shore, 53,1004.; Lamplugh Hematite Company, 6000.*; advances to five to the company of the present or prospective value of the interest of the Colonial Trusts Corporation in these assets? What has the element, which conclusively, show the rottenness and insolvency of the Trust for year past?" If so there can be no doubt that the shareholders should resistave is defined and orphans, ladies, and clergymen so graphically described in Mr. Remostration of these men's estates, which in a few years will produce sufficient in recover all the losses innourred by them. Far better the hearths and homes of the two devices appears and orphans, ladies, and clergymen so graphically described in Mr. Remostration of these tew men should be desolated than the hearths and homes of the hundreds of vidows and orphans, ladies, and clergymen so graphically described in Mr. Semiconnond, 93 to 104; abstracts of Mr. Probert's repl The Colonial Trusts Corporation case will, it is understood, come

misfortune arising out of the recent depression of trade, both shareholders and exitions should unlte to bring the resuscitation and restoration of the corporation be assessed ilsue.

Richmond, 9\frac{3}{2} to 10\frac{1}{2}; abstracts of Mr. Probert's reply to the report of the committee of the investigation and of the circular of lessrs. Steuart, Maybury, and Pulbrook are published in another column, with comments upon them. The requisition for calling an extraordinary meeting for the removal of Messrs. Steuart, Maybury, and Pulbrook from the board was signed by 118 registered members, holding 17,255 shares (the total number of shares in the company being the commentary of the remainder support them der removal may be considered certain; but it should be distinctly understood last such removal will not in the slightest degree reflect upon the integrity or replation of the gentlemen removed, since it may be assumed that the principle states the string stellar of the company's affairs, so that the sole business stations is this:—It is indisputably proved that their views are so diametrically speed to those of the other members of the board upon all essential points that he tree sections cannot carry on the company's affairs, so that the sole business stations is which of the disturbing elements shall be annihilated: and perhaps, it is not unreasonable that a large majority of the shareholders should, sithonically the good old maxim that "devil known is better than a saint unreasonable that a large majority of the shareholders should, sithonically the properties of the conduct of the appeal in the case in the suit of Tarbet v. Flagstaff Company, tanget, have succeeded in earning 55 per cent, per annum for dividends, to be a subject of the conduct of the appeal in the case in the suit of Tarbet v. Flagstaff Company, tanget the carring in early the properties of the conduct of the appeal in the case in the suit of Tarbet v. Flagstaff Company, was formed. The properties of the conduct of the superior of the conduct

lesd mines have been somewhat better supported, partly traceble, no doubt, to the improved aspect of other investment markets.

Van, 14 to 15; the 105 west is worth 100*l*. per cubic fathom for lead ore. The same level east is looking more kindly for ore, and producing more lead and blende. Other parts looking well, and without change. The u-ual four-weekly sale will take place on Wednesday, when 500 tons of lead and 150 tons of blende will be

without change. The u-ual four-weekly sale will take place on Wednesday, when 500 tons of lead and 150 tons of blende will be offered.

Grogwinion, 2 to 2½; the manager's monthly report is published in another column. Frongoch, 2 to 2½; the whole of the first issue of shares has been subscribed for and allotted, and the works at the mine are in active operation. Wye Valley, 1½ to 2½; the monthly report states that the lode in the bottom level is of a promising character, and improving as it approaches the ore ground passed through in the upper levels. The 22 east is also looking well, and another that in about another month it will enter into the ore ground in Tippett's shaft. The tribute pitches are looking well, and another parcel of lead will be sold during the current month. West Wye Valley, 2 to 2½; a parcel of 40 tons of lead ore was sold yesterday. The mine is looking well, and the rise from the 52 to the 40 east is in very productive ore ground, with prospects of further improvement. Caron, 2 to 2½; a the meeting on Mo day the Chairman stated that good progree was being made in dressing the ore, and that in a few days a first parcel would be sold. More or is being discovered than is taken away, and at any time the output could be doubled. The lead is of good quality, and contains a fair percentage of silver, and it is believed that a good future is in store for the company. Red Rook, 2 to 2½; the lode in the bottom of the mine is still improving, and yielding a good deal of ore, as also are the stopes below the eastern shift, which are yielding fully 2 tons per fathom. Another parcel of 40 tons of lead will be sampled this month.

Mineral Corporation, 10 to 11; no detailed report had been received up to Friday morning, but it is stated that the development of the Hafna Mine is progressing satisfactorily, and that there has been an important improvement in the No. 3 adit. The lode in the other adits are said to be also looking as well as could be desired. A detailed report is promised for next week.

Pan

Pestarena, % to %: Placerville, 2% to 28%: Plumas Eureka, 2% to 22%: Port Philip, % to 5%: Richmond, 9% to 10%: St. John del Rey, 280 to 290; Sierra Buttes, 19% to 19%: South Aurora, % to %: United Mexican, 3 to 3%.

Collieries,—Business continues very dull, and very few shares have changed hands during the week. The prospects of the coal trade are, however, showing some signs of improvemen, and if a peaceful issue to the present disturbed state of political affairs can eventually be arrived at, there can be no doubt that a rapid and satisfactory reaction will soon be seen in our coal and iron trades. Otherwise, though we believe that the improvement will still come, we must be satisfied to see the more gradual growth of better feeling and more stable and profitable business. Meanwhile, the winter season comes as a boon to many collieries whose fuel is suitable for household purposes. Already some districts are very much more busy in supplying London and other large centres with house fuel, and this winter demand will go a long way towards carrying the collieries on until trade and politics grow more cheerful. Reports from Derbyshire, Yorkshire, and Durham are all to the effect that the tendency of the coil trade is favourable, though at some of the collieries gas coal is slow in going off. We do not for a moment believe that this is in the slightest degree due to the electric light scare. It arises solely from some of the larger gas companies having overstocked themselves, in anticipation of a probable rise in the price of coal. With regard to the electric light, some apprehension appears to exist in the minds of uninformed or insufficiently informed people that the advent or successful adaptation of this light for general lighting purposes would be a serious blow to the coal trade. We think this is an endire mistake. In the first pluce, the whole consumption of coal for the manufactories, nor run the canfle or lamp makers. Nor will Mr. Edisons or anyone else's invention quickly bring ruln upon our gas compani

With this week's Journal a SUPPLEMENTAL SHEET is given With this week's Journal a SUPPLEMENTAL SHEET is given, which contains: Original Correspondence: Tin Mining in Larut—No. III. (P. Doyle): On Underground Haulage—No. II.; Economy in Filling Skips; Machine Mining—the Eclipse Drill (E Edwards); the Great Northern Railway (W. J. Thompson); City of Glasgow Bank—Unlimited Liabilities (R. Tredinnick); New Quebrada Company; the Richmond Mine: Richmond Consolidated Mining Company; Economic Manufacture of Zine (C. Boundy); Prospects of Cornish Mining (C. Sawden); Lead Mining; the Cornish Felipara Company; Mining in North Wales (A. Francis); Patty-Mwyn Mine Jones and Houston, J. Roberts, T. Hughes); Old Treburgett Mine—the Metallurgical Uses of Tungsten—Registration of New Companies—the Scotch Mining Share Market—Foreign Mining and Metallurgy—Almada and Tirito—On Force-pumps with tubular Rods—Conversion of Non-chilling fron into Chilling Iron—Direct-acting Steam-pumps—Propagation of Wave Motion—Patent Matters—Meetings of United Mexicus, West Godolphin, Caron, North Hendre, East Pool, and West Pateley Bridge Companies, &c.

THE FRONGOCH MINE,—As an illustration of the fact that capital is always forthcoming for the development of mines in tried and well proved districts, we are glad to announce the formation of the above company with a capital of 25,000*l*., in 12,500 shares of 2*l*. each, 1500 shares being kept as a reserve; the remaining 11,000 shares have all been subscribed for, and allotted. Mr. J. Kitto has been appointed manager. In another column will be found a report furnished by Capt. N. Bray, who has an intimate knowledge of the capabilities of the property, and of the district in which it is situated.

THE CLOGAU (WELSH GOLD) MINE .- Occasional stones containing rich gold have been met with on the branch lode, although the ground has changed in the last fathom driven, the indications being that at last the shoot of payable ground has been driven through. Within the last few days good gold has been met with in the 15 fm. stope; but more ground will have to be broken before an opinion can be formed of the value of the shoot. During the month the Britten pans crushed 500 lbs. of ore, which yielded 79 ozs. 1 dwt. of gold.

LEADHILLS SILVER-LEAD MINING AND SMELTING COMPANY The third meeting of shareholders was held at the offices of the company, Finsbury-circus, yesterday. The reports presented were of a very eatisfactory character; the supplies of ore are ample, the new developments are opening up well, and nothing is necessary but a slight rise in the price of lead to enable the directors to make handsome returns to the shareholders. A full report of the proceedings will expect in part weekly. Maning Jerumel handsome returns to the shareholders. A full report of the pro-ceedings will appear in next week's Mining Journal.

RICHMOND.—The reply of Mr. Probert to the report of the committee of investigation has been issued during the past week. Mr. Probert finding himself called upon to prove the negative of a series of propositions, all of a more or less injurious nature, instead of attempting to deal with them in detail selects a few of the grayes brought against him and treat these exserious of the charges brought against him, and treats these exhaustively, with the avowed object of showing that his accurers are unworthy of credit. By this short and effective method he saves himself and the shareholders a great deal of trouble, and it certainly appears that he has attained his object. By introducing documentary evidence of an unimpeachable

nature, he completely disproves the most compromising allegations of the committee, leaving them in the unenviable dilemma of persons who have either been themselves deceived or have been negligent of the confidence placed in them. Under the first division of his subject, while treating of the mining prospects, he shows very clearly that, so far from having "not permitted" explorations to be carried on towards the quartite, he was among the most urgent to have it done, and was quite at one with Mr. Rickard in his views as to the formation as well as the mode of prespecting Ruby Hill. This is shown by the numerous presages extracted from his correspondence with Mr. Rickard, who also himself bears testimosy to the fact that Mr. Probert did not force any particular theory of his own on him or the smelting furnace. Indeed, the internal evidence of these letters is irresistible, and the passages quoted further show that the committee made a most improper use of them. In the next division (the smelting works) it is shown that the hydrocycle furnace had been most unjustly libelled by Mr. Eliers and the committee, the former having described them as being too small for profitable use, while the latter proved them as of half their true capacity, while the latter double their original cost, and both carefully select a month for the purpose of making a comparison between them and the stone furnaces, and also considerably understating the quantity of mineral smelted by the hydrocycles. This is fully exposed, as well as many others.

GOLD RUN HYDRAULIC MINING COMPANY.

GOLD RUN HYDRAULIC MINING COMPANY.

The annual meeting of shareholders was held at the offices of the company, Finch-lane, on Wednesday,—Mr. Hill in the chair Mr. T. E. Briggs (secretary) read the notice convening the meeting, and the directors' report and accounts were taken as read.

The CHAIRMAN, in opening the meeting, said that the reports of the directors and the superintendent gave all the information the directors had, and, con-equently, left him little to say. The board was disappointed that Mr. Stone had been unable to fulfil his promise of clearing enough of the soil from the bed-rock to have a site for a mill, but it would be seen from the superintendent's report that the shortness of the water season had prevented his doing this. A longer water season was anticipated at the beginning of the year, but the fall of anow having been very small the water season had been greatly outsided. Had Mr. Stone been able to have made one more run there would have been space for the mill; so consequently after the first run in the next season there should be plently of room to put one up. Mr. Stratton, one of the directors, had recently visited the property, and would be glad to give any information respecting it that shareholders might desire. In conclusion, he would formally move that the report of the directors be and is hereby adopted, and the accounts approved, which having been seconded by Mr. Halls, Mr. Letherloge suggested that probably Mr. Stratton would now give the meeting the result of his recent visit.

Mr. Strattor stated that he had thoroughly inspected the property, and was well pleased with what he saw there. He then explained the plan of working the mine, but which would be unimitalligible without the plan printed with the report. He said there was not the slightest doubt of the richness of the property, which covered 75 acres of ground, and the gravel was from 200 to 250 ft. in depth, and it would take at least 20 years before it could be all washed.

Mr. Letherloge enquired if he was satisfied

ZINC ORES.

ARMAND FALLIZE, INGENIEUR-CIVIL, A LIEGE (BELGIUM),

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CAPTAIN ABSALOM FRANCIS, MINING AGENT, ENGINEER, AND SURVEYOR, GOGINAN, ABERYSTWITH.

Date.	Mines.	LEA:	D O	R E	8	08.	Purchasers.
Oct. 28-F	ookhope	40	£ 8	19	6	*****	J. Dinning.
Nov. 4-6	rogwinion	100	9	6	0		Nevill, Druce, and Co.
5-I	rince Patrick	15	10	1	0	******	Quirk, Barton, and Co.
-	ditto	5	12	16	0		ditto
7-7	ankerville	80	9	18	0		Nevill, Druce, and Co.
-	ditto	20	8	13	0		ditto
8-8	outh Darren	40	14	12	0		ditto
HORNAC	HOS (rilver-Le	d)This	compan	v sol	d	on N	ov. 4, 11 tons 8 cwts., fo
3484, 78, 76	., to Messrs. No	vill, Druce	, and Co				-

Notices to Correspondents.

SCOTTISH AUSTRALIAN MINING COMPANY.—One or two slight errors crept into our report last week of the proceedings at the general meeting of shareholders. It was stated that 20,000 more tons had been sold in the half-year as compared with the previous half; it should have been as compared with the corresponding half of the previous year. It should also have been stated that the quantity sold in July lost was 17,332 tons, and in August 22,221 tons, which was 14,400 tons more than in the corresponding two months of the previous year.

Mangaresz.—"D. C. A." (Highbury).—The statistics asked for shall, if practicable, be obtained. The price of manganese has not varied much for the last few years. Few purchasers now care for mineral below 70 per cent. peroxide, although some years since, when Messrs. Fernie had the monopoly of the trade, 64 per cent. peroxide was made the standard. The present average price may be estimated at 80s. to 85s. per ton for 70 per cent., and 2s. 6d. per cent. up or down. The market is well supplied.

"Emigrant."—The fastest voyage on record from Australia to England was made.

down. The market is well supplied.

"Emigrant."—The fastest royage on record from Australia to England was made
by the Chimborazo, which left Adelaide on July 2 and arrived at Liverpool on
August 11, this year. The average journey from Melbourne is about 65 days.
A review of Mr. H. Hussey Yivian's "Notes of a Tour in America" will appear in
next week's Journal.——Several other matters are also unavoidably postponed.

A review of Mr. H. Hussey 1171ans." Access of a 100 m America. Mr appear in next week's Journal. ——Several other matters are also unavoidably postponed.

IMPORTANT NOTICE—REDUCTION OF POSTAGE ON THE "MINING JOURNAL."—In consequence of the new Postat Convextion, which came into operation on July 1, the postage of the Mining Journal to many countries will be reduced to one fourth. Henceforth the subscription will be 1l. 10s. 4d. per annum (39 free postage included, for the following countries. The amount will, if desired, be collected at the subscriber's residence at the end of each year. The subscription continues untilountermanded.—Austria, France, Belgium, Denmark (including Iceland and the Farce Islands), Egypt, Germany, Gibraltar, Greece, Heligoland, Italy, Laxemburg, Netherlands, Norway, Portugal (including Madeira and the Arores), Roumanis, Russia, Servia, Sweden, Switzerland, United States, Maita' Turkey, Morocco, Tunis, and the Canary Islands. Spain 1l. 19s. (50 frs.)

Received,—"Enquirer" (Paris): We will endea your to ascertain the particulars, and publish them in next week's Journal—"Constant Reader" (Louth)—"M.N."—"Shareholder" (Richmond)—"J. W."—"Shareholder" (Wheal Crebor)—
"Shareholder" (Richmond) hould write to Messrs, Pixiey and Abell, 27. Old Broad street—"P. R. 8."—"Shareholder" (South de Eresby Mountain)—"Constant Reader" (Barnsley).

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, NOVEMBER 9, 1878.

THE ELECTRIC LIGHT.

METROPOLITAN AND OTHER IMPROVEMENTS, GAS COMPANIES, &C

The views we recently gave in the Journal as to what the electric light was capable of effecting in many ways, we are glad to find, have in come important instances been fully endorsed on high authority. We pointed out in particular that the new light in all probability would be introduced into our mines, and would render authority. We pointed out in particular that the new light in all probability would be introduced into our mines, and would render explosions out of the question, seeing that it could in no way be affected by accumulations of gas, nor vice versa. Dr. Hawksley, it appears, is of the same opinion, for he states that the electric light can be so multiplied by reflectors as to brilliantly light the working places of mines, and so carry into the deepest recesses of the latest workings a light many time superior to that of the miners' lamp. We are told that, amongst other advantages, the electric light, though the beam traverses the densest bodies of gas, can never cause explosion or conflagration, and it cannot enable the miner to endanger a hundred lives for the selfish purpose of gratifying his taste for a pipe of tobacco, for there is no lock to be picked, wire gauze that can be struck, or lighted wick that can be exposed to the atmosphere of a working place, which may be filled, or partially so, with gas of a highly inflammable character. To accomplish this will be a matter of but little difficulty, as we formerly pointed out, whilst there is no doubt whatever but what the owners of mines will confailly co-operate with the patentee, or patentees, of an invention that will ensure every safety not only to the men employed but to their property as well, and at the same time give them a brilliant light at a less cost than the present dim and dangerous one. It is well known that oil is a serious item of expenditure in the working of a mine, for the consuption is very large. In addition to it there is also the outlay for lamps, for glasses that are constantly broken, and the wages of lamp cleaners. In lamps alone, where it has been found desirable to change them, we have known 1000/. to be laid out for the purpose. Lamps under most favourable circumstances will be found necessary, but not to anything like the extent as at present. We are, of course, assuming that the electric light will be in every way successful, as

good reasons we are not allowed to know all that it is capable of, or how the light can be best divided or adapted for the many purposes for which gas is now the only medium.

But the electric light we may say is far from being even a comparatively new invention. Dynamical electricity it has been shown can be produced in several ways. By Sake's mode electricity is generated or passed by a wire from the zinc to the silver. Its passage through a wire wound round a magnetised needle causes the needle to deflect, and so point to the telegraph, but if the wire is broken in the middle, and cornected with two pieces of charcoal, the electric light is produced. As to its early introduction, we may say that about 47 years have elapsed since Professor FARADAY discovered that an electric spark could be produced by the sudden separation of a coiled keeper from a permanent magnet, but we are not aware that the valuable discovery then attracted much attention outside the circle of scientific men. It was, however, evidently not pushed so far as to cause it to be considered of sufficient value to be pursued for the purpose of seeing whether a light could be evolved from it that would tend in any way to make us less dependent on coal gas as an illuminating power. Still, the question of electrical light was not lelt unnoticed until within the last few years, for in 1858-9 Professor Holmes devised a machine that was most-successfully brought into operation at the South Foreland Lighthouse, where the light was the most brilliant ever displayed up to that time. After that Gramme's improved machine was introduced, we believe, in 1875 into this country by Mr. Werdermann, and exhibited in the Westminster Bridge-road. Driven at the rate of 400time. After that GRAMME's improved machine was introduced, we believe, in 1875 into this country by Mr. WERDERMANN, and exhibited in the Westminster Bridge-road. Driven at the rate of 400 revolutions per minute, it had a power equal to 500 Bunsen's cells, giving a light of great brilliancy. Again we find Mr. WERDERMANN in the front rank, and his display in the Euston-road on Sturday evening last was different in many ways. In his earlier experiments he adopted an arrangement of the carbons similar to that of the Jablochkoff candle, but on Saturday night he placed his negative uppermost, and gave it the form of a solid disc about 2 in. form of a solid disc about 2 in. in diameter by less than 1 in. in thickness, this being fixed horizontally, and then the lower, or positive, electrode was placed vertically, and so pressed its upper extremity against the lower face of the disc. In the first instance the carbons are blunt, but are made pointed by the action of the electric current, which drives off the particles of carbon laterally with increasing force as the upper end is reached, so that the carbons terminate in a long delicate point. The light is produced by the incandescence of the tapering extremity and by the minute electric arc which takes place at the apparent junction of the two carbons. Mr. WERDERMANN on Saturation of the two carbons. day night lighted ten lamps with one divided circuit, each light being estimated at fully 40 candle power. The motive power employed was about equal to 2-horse power, from a small engine driving a Gramme electro-plating machine capable of depositing only 3 oza. of silver per hour, the electro-motive force being equal to about four Danieli cells. The machine was by no means suitable, so a good deal of the power was lost. The Werdermann light, we may say, is soft, subdued, and steady, and only requires a clear glass globe for its protection. So far, then, the lights that have been exhibited in the Metropolis show that inventors are in the right path, although we are partly in the dark as to what has been accomplished by others who have been devoting their attention to electricity as a

means of superseding ordinary gas. But we may expect that before long we shall be enlightened on the subject, and that something approaching perfection will be arrived at.

The adoption of the light, however, will affect several interests,

The adoption of the light, however, will affect several interests, for electricity will be found particularly well adapted for lighthouse purposes, and there is no doubt but it will be taken advantage of by our railway companies. By it passengers will be able to have a brilliant light during the darkest nights, and it can be made to do double duty by not only illumining the carriages but the line of railway itself, so that there will be less liability to accidents from collisions—a most important consideration. But there are many other purposes for which the electric light will be found applicable, so that its development would appear to be a question of time only. But of this we shall have more to say when the inventions of Mr. Edison and others are made known, as we expect they will be shortly.

shortly.

Considering the position of the Metropolitan Board of Works, it Considering the position of the Metropolitan Board of Works, it is highly to the credit of that body that they have shown every disposition to have the electric light fully tested, with the knowledge that its success would be somewhat inimical in the carrying out of the improvements in the Metropolis. By it, also, the Corporation of the City would be affected in its revenue. As we have before pointed out, the Metropolitan Board and the Corporation enjoy between them the dues paid on all coal entering London, and the sum so raised is a large one. The officers of the Corporation collect a tax of 1s. 1d. per ton on all coal arriving either by railway, sea, or canal, for special purposes, and they are entitled by Act of Parliament to do so until the year 1889. Of the sum named 4d, is taken by the Corporation for improvements within the limits of the jurisdiction of that body, and the remaining 9d, per ton is taken posses by the Corporation for improvements within the limits of the jurisdiction of that body, and the remaining 9d. per ton is taken possession of by the Metropolitan Board of Works on account of the Thames Embankment and the General Metropolitan Improvement Accounts. The proceeds of the last year's collection has been specially hypothecated for clearing the Kew and some other bridges from toll and making them free, the same as was done with Waterloo Bridge a week or two since. Now, the coal tax last year realised no less than 465,382L, and the electric light, if brought into use, will certainly jeopardise a considerable portion of that sum, and the difficulty will be to obtain an Act of Parliament to obtain taxing powers to the same extent in connection with any article of general consumption. The Metropolitan Board, no doubt, has powers for levving a rate on property, and for borrowing money, but so much levying a rate on property, and for borrowing money, but so much cannot be said with respect to the Corporation. That body will evidently lose a portion of the revenue from the coal dues in the event of the success of the electric light, and this is not likely to be event of the success of the electric light, and this is not likely to be made up from any other source. But assuming that the new light will for some time to come be confined to the lighting of the streets of the Metropolis, there will be a considerable falling off in the consumption, and, of course, in the dues. The light, however, will be for the benefit of the public generally; and, as is always the case in the event of any great change taking place, a comparative few may feel some injury at the commencement, but that will be more than counterbalanced by the beneficial results to the many.

The gas directors in the Metropolis have worked hard to assure their shareholders that they have nothing to fear from the electric light, and that at most it can only be carried out for lighting the streets, and that they will still have their really profitable trade left—the lighting of houses and buildings. The probability, however, is that when once the streets are lighted by electricity buildings and houses will follow in due time.

MINERS' PERMANENT RELIEF FUNDS.

Arrangements we are told have been made for holding a confer Arrangements we are told have been made for holding a conference of the persons at present having the management of the various associations throughout the kingdom that have been established for the relief of those suffering from mining disasters. The gathering is to be held in Manchester, and is for the purpose of forming a National Permanent Relief Fund, or a federation of the different societies with a central fund to deal with disasters too serious to be dealt with by any one local organisation. We are not aware of the persons who has taken the initiative in the matter, although the scheme is something like that proposed by Mr. ELLIS LEVER, nor how it happens that the conference is to be held in Manchester. For several years past we have strongly urged the necessity that For several years past we have strongly urge the necessity that existed for the establishing of relief funds in the leading centres of existed for the establishing of relief funds in the leading centres of all our mining districts, so as to do away with all appeals to the public for pecuniary aid, and on the occasion of all heavy colliery disasters. Had our views, persistently urged as they were, been carried out there would have been no occasion of late for begging for money throughout the country for the widows and children of those who were killed by recent colliery explosions. But the leaders of the working miners, looking a good deal to their own interest, and the formation of funds solely for trade purposes, in which they largely participated in the shape of salaries, travelling expenses, and similar items, entirely neglected to induce the men to make any provision for their families in the case of disablement, sickness, or death. At the same time they estranged the men as much as they could from their employers, so that the latter were not till-all the same time they estranged the men as much as they provision for their families in the case of disablement, sickness, or death. At the same time they estranged the men as much as they could from their employers, so that the latter were not likely to put forward or help any scheme for the relief of those who might be left destitute owing to accidents whilst following their employment. But a different feeling now exists on the part of employers, who are desirous of doing all they can to promote thrifty habits on the part of those working for them, and induce them to make some provision for their wives and families in the event of their death. The result is that during the last few years several associations have been formed, the colliery owners subscribing most liberally, whilst the men have only to pay a small sum weekly. Amongst the most recently formed associations is that known as the West Riding of Yorkshire Miners' Permanent Relief Fund, to which large sums have been given by Earl Fitzwilliam and other which large sums have been given by Earl FITZWILLIAM and other colliery owners, whilst some surpluses from former funds have also been handed over to it. We have been favoured with a copy of the been handed over to it. We have been favoured with a copy of the rules as well as with other information respecting the association alluded to, and we incline to the opinion that the heads of it are not likely to join any national body, and we certainly think they would be right in so doing. National associations have been pet hobbies of the leaders of Trades Unions, more especially of those who have led the miners to so many disasters, and we have no desire to see a "national" in connection with funds raised for a much better object than the carrying on of a war against capital. Some of the bodies already formed for relief purposes have large sums in hand, far greater than could be required for any catastant.

some of the bodies aiready formed for renet purposes have large sums in hand, far greater than could be required for any catastrophe that could possibly take place, together with many thousands of members, so that a levy of only is. a-week would more than suffice to keep well and comfortably upwards of 7000 persons. Now, we would ask can a National Association be of the slightest use to such a body as that we have described; or would the North-mobelland and Durham Society with its large fund and 70,000 umberland and Durham Society, with its large fund and 70,000 members, be willing to contribute towards accidents in other districts where the men had been less provident? This we presume is what a Miners' National Permanent Relief Fund is proposed to be established for. In some districts we may also say accidents from explosions are of very rare occurrence, and where a fund is not really explosions are of very rare occurrence, and where a fund is not really needed; yet we suppose such localities would be called upon to pay towards a National Fund—that is, both masters and men. If those who are now promoting the national movement really think that all persons connected with mining will join in such a project we all persons connected with mining will join in such a project we believe that they will be greatly disappointed. The present associations are conducted by persons well known in each district, so that the working expenses are comparatively trifling. But a National Association, we suppose, would have a central staff with paid officials. The colliery owners, we believe, would not agree to any such proposal, but would do all they could for the district with which they are connected, and where their interest lies. We feel secured that the associations in the regions mining district are now. assured that the associations in the various mining districts are pre-pared to meet any contingency that is likely to arise, and from the communications addressed to us by many coiliery owners we feel sure that the scheme, however philanthropically intended, will not be found to work. It is said that there has been an agitation in favour of a National Society, and if there has it has been one that

the parties most interested have been entirely kept in the dark. We suppose, however, that they will be enlightened on the subject when the meeting takes place and the names of the promoters made

RAILWAY IRON IN THE UNITED STATES.

RAILWAY IRON IN THE UNITED STATES.

It appears tolerably clear that there is a revival in the railroad interest of the United States. Partly owing to an improvement in business, partly owing to an abundant harvest, and partly owing to the establishment of more remunerative freight rates, most of the leading American railroad systems are enabled to present better traffic statements this year. Even the luckless Erie—now known as the New York, Lake Erie, and Western—has increased its net profits this year to the extent of rather more than \$1,000,000. The Baltimore and Ohio has resumed dividends upon its main stem stock at the rate of 8 per cent. per annum, payable, however, in new ordinary stock. The Pennsylvania, which sustained very great in juries and losses during the terrible riots which occurred at Pittsburg and other towns in Pennsylvania in the summer of 1877, has also announced a resumption of dividends upon its considerable share capital at the rate of 4 per cent. per annum. The Northern Pacific, again—which has been in a state of suspended snimation for the five long years which have elapsed since the great panic of 1873—is about to resume constructive operations between Bismarck for the five long years which have enapsed since the great panic of 1873—is about to resume constructive operations between Bismarck and the Yellowstone, a distance of 200 miles. Such circumstances as these—and our illustrations might be greatly multiplied—servet show that the American railroad interest is in a sensibly better as these—and our instrations might be greatly Builtplied—serve to show that the American railroad interest is in a sensibly better position now than that which it occupied twelve months since, and that it is accordingly likely to consume larger quantities of railroad iron. It is especially likely to absorb a considerable amount of steel. It must be remembered that American railroads are in many cases very imperfectly constructed in the first instance, and that if they prove reasonably satisfactory financial successes, their road bed is materially improved afterwards. Upon such systems as the Illinois Central, the Pennsylvania, the Baltimore and Ohio, the New York Central, the New York, Lake Erie, and Western and the Chicago and North Western we may expect to see steel rails introduced upon all sections upon which there is at all a heavy traffic, and we believe it to be the fact that at the present time the steel rail [mills of Pennsylvania] are as actively employed as they well can be. Even iron rails, too—which can be still used to some advantage upon some of the less prosperous lines of the South and the extreme West—are in better request than they formerly were; and this improved demand will, it seems probable, continue for a further period.

It is not without interest to enquire whether the brightening prospects of the American iron trade will not exert an indirect influence for good also upon British metallurgy. We incline to think that they will. They will serve to render American competition less inthey will. They will serve to render American competition less inveterate upon the principal markets of the world, and prices will probably be also strengthened to some extent. The panic of September, 1873, told very severely upon the American iron trade. The undue inflation of 1870, 1871, and 1872 induced too sanguine expectations among American ironmasters, and their means of production were increased to far too great an extent. When the panic occurred the means of production were increased to far too great an extent. were increased to far too great an extent. When the panic occurred the revulsion was terrible, a very heavy amount of capital being embarked in the American iron trade. One consequence of the check experienced by American metallurgy was that American iron-masters exhibited much anxiety to open out new markets for their products in Australia, Canada, South America, and the West Indies. We do not say that this very natural desire to extend their business relations is altogether abandoned by American metallurgists, but is clear that if they are better employed at home they will ask higher prices for their iron and steel; and this being the case, their competition will become less formidable, while there is also just a chance that a little British iron and steel may be enabled to find a sale upon that a little British iron and steel may be enabled to find a sale apon American markets. We think, then, that the English iron trade has every reason to regard with satisfaction the change for the better which has taken place in the railroad interest of the United States.

THE FORTHCOMING MINERS' CONFERENCE-IMPORTANT PRO-THE FORTHCOMING MINERS' CONFERENCE—IMPORTANT PRO-POSITIONS.—The programms of the special conference of the miners of England, Scotland, and Wales, which is to be held in Manchester, in the Ardwick Town Hall, on Monday, Dec. 16, and the following days, under the presidency of Mr. Alexander Macdonald, M.P., ha just been issued. The subjects to be discussed have been formulated under 18 heads, to be afterwards drafted into a Bill to be introduced by Mr. Macdonald. The first is a proposition that workmen shall not be allowed to enter a mine until it has been examined and renot be allowed to enter a mine until it has been examined and reported to be free from any accumulation of gases. The next is that upon the appearance of gas in any working place the men shall be withdrawn from the mine until it has been examined and reported to be safe. The third is that no blasting powder shall be used in any mine unless the manager shall certify in writing that the particular part of the mine is safe. The fourth is that every chief manager shall be a trained and qualified viewing or mining engineer, whose duties shall be defined by the Bill. The under-manager is to hold a second-class certificate, and no under-viewer or undermanager is to be deemed the certified manager of the mine. Overmen deputies, and fremen are to be subject to an examination is The next is that men, deputies, and firemen are to be subject to an examination as to their knowledge of gases. In the sinking of new mines precat-tions are to be taken, in advance of the general working, to data tions are to be taken, in advance of the general workings off and exhaust all dangerous and explosive gases. All extensions of workings to be detailed on the working plan within one moth of the time of the place being worked. The reports of examinations of mines to be made in a book accessible to the miners before proceeding to work. An important proposition is that which related to the desirability of appointing a Minister of Mines. It is proposed that danger signals shall be placed in all the mining centres of the United Kingdom showing atmospheric changes likely to posed that danger signals shall be placed in all the mining of the United Kingdom, showing atmospheric changes likely to affect the working of mines. That safety-lamps shall be examined before use, and that additional Inspectors, to include competed states and that additional Inspectors, to include competed to the control of the contr before use, and that additional Inspectors, to include competed working miners, should be appointed. With regard to fatal scidents, it is proposed that the mine shall remain untouched nail visited by an Inspector, unless such non-interference should tend to increase or continue the danger. It is proposed to give power to the managers of mines in which explosive gases are known to exist to examine the clothes of workmen suspected of being in possession of anything likely to increase the danger of the mine. The other provisions relate to the weighing of the coal under the inspection of a check-weighman, to be appointed by the werkmen, and to compensation to workmen in case of accident. No suggestion is made with regard to the latter. It is simply set down for consideration.

ACCIDENTS IN MINES.—It is gratifying to state that a trall philanthropic movement is now being pushed forward for the immediate ralies of sources to the organisation. What is known as the of the Order of St. John of Jerusalem in England for the instruction of individuals in the method of tending and relieving persons injured by those accidents which are of frequent occurrence in time of peace. Classes are arranged to be open to any men who may be desirous of learning the first elements of the art of handling wounded persons, checking, hereoversees and applying first dressings and desirous of learning the first elements of the art of handling won persons, checking hemorrhage, and applying first dressings bandages. There is probably no district where such knowled so desirable as in a colliery; one where under the most favour circumetances accidents are of almost daily occurrence. We therefore, glad to hear that in the county of Derby, where colling the necessary medical information fitting them for giving reliable persons who may be injured in mines whilst following their ording work. At Clay Cross there are the largest mines in this county, three most efficient corps have been formed, and, we understant the county of the persons who may be injured in the largest mines in the county of the most efficient corps have been formed, and, we understant capable of treating accidents of almost any kind in the first stance without having to wait the arrival of the qualified med stance without having to wait the arrival of the qualified med another centre was formed, when it was stated that Major Danother centre was formed, when it was stated that half ago is on the part of the Association, about a year and a half ago is on the part of the Association, about a year and a half sgo ris the Derbyshire Institute of Engineers for the purpose of draw the attention of the members to a new ambulance wagos for

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for obtaining ving relief to their ordinary also county, and understand, is in the first in alified medical terfield, where Major Duncan, alf ago visited

conveyance, easily and painless, of persons injured, a most important lebject in a mining district, and the result was that many of the organs had since been introduced into the neighbourhood. At a regons had since been introduced into the neighbourhood. At a characterield, it was lated by Major Duncan, the pupils would be taught how to restor the apparently drowned or suffocated, how to carry an injured person so that a simple fracture might not become compound, how to check bleeding, and so on. He also expressed a hope that the President of the Mining Association (Lord pressed a hope that the President of the Mining Association (Lord carrying persons injured in the pits from the workings to the surgical persons injured in the pits from the workings to the surgical short the shifting into the cage and again out of it at the top often did seriour injury to the suffering persons. At Clay Cross it appears that the class consists of no less than 34 persons, who have nached a high state of proficiency, and were able to give their services whenever an accident occurred, whilst 15 of them had sent in their views with respect to an ambulance suitable for conveying persons injured from any part of the pit to the surface. We think we need scarcely say that the movement is one that should meet with the strongest possible amount of encouragement on the part of our colliery-owners, whilst ambulances should be provided at sery mine, for nothing can be more torturing to an injured man than to be jolted home in a springless cart. Whilst prompt attention after an accident in many instances would be the means of saving life. The movement is now making good progress; and, as a best field. The destribution in which it is held, we may state that at the besterfield Lord Edward Cavendish said he purposed becoming one of the pupils.

PYRYOR, DUFFRYN, AND NEATH ABBEY COLLIERIES COMPANY.
—in the High Court of Justice on Monday this case came on upon
adjourned summons for the sanction of the Court to carry out an
agreement entered into for a lease of the collieries to two persons
who were willing to pay a rent of 5000%. A discussion upon this
apposal was held during the vacation before the Vice-Chancellor,
who came up to London expressly to hear the case. His Lordship
her expressed himself in favour of sanctioning the scheme, but
llowed the case to stand over till this day, in order that the parties
hight see if a better offer could be obtained. A meeting of the
ampany had been held, at which a resolution was passed that the
fifer should be accepted, and the Court was now asked to confirm
that resolution.—Mr. J. Pearson, Q.C., and Mr. Romer appeared
a support of the summons; Mr. Bristowe, Q.C., and Mr. Oswald
appeared to oppose the application on behalf of Lord Lawrence, and
ther persons interested; Mr. Glasse, Q.C., and Mr. Cozen Hardy,
Nr. Riggins, Q.C., Mr. M'Lara, Mr. Millar, Mr. Grosvenor Woods,
Nr. Rigdiad, and Mr. C. James appeared for other parties.—The
lice-Chancellor said it was evident that the cause of failure in this
company was the great fall in the price of coal since the time when
the collieries were first worked. It was now in such a position that
to profits could be realised, and the creditors could obtain nothing,
a such circumstances he considered that the offer which had been
made to take a lease of the colliery at a rebtal of 5000% was one
which ought to be accepted, unless a higher rent could be obtained,
and at a meeting properly convened for the purpose a resolution had
been passed by a large majority for giving effect to the proposal.
No higher offer had been made, and he was of opinion that the reobtains should be carried into effect. ery should be carried into effect.

Rock-Daills.—As many of our readers who have visited the Paris Exhibition, those interested in machinery cannot have failed in notice the extensive show of mining machinery and mineral products made by the Creusot, Angin, and Blanzy Works. Among the atterwere six or eight of the Darlington-Blanzy rock-drills mounted in shaft sinking and level driving stands, just as they are worked at the Blanzy Collieries, where a considerable number are in operation. We are, therefore, glad to find that the jurors awarded a tild medal to Messrs. Chagot and Co. for their exhibit.

REPORT FROM CORNWALL.

Now 7.—There is decidedly a very much more hopeful and healthy seling about the more immediate future of mining than there was see a few days since. On all hands we hear the belief expressed at the tide has at length indeed turned, and that although a rapid after of prosperity may be too much to anticipate there is very sittle chance of a recession. It has certainly been a terrible struggle. It has certainly been a terrible struggle flow terrible none but those who have been personally concerned an say. Only two things have enabled mining to survive the train—the indomitable pluck of the Cornish miner when he has air play, and is not hampered by too often ignorant outside influence; and the continued and even enhanced richness of most of the ading mines. If the depression in price had chanced to be coucilent with a period of comparative barrenness in the yield of our dis—and such periods there have been—why then mining would have been well nigh, if not altogether, annihilated. Instead of that astof the mines have shown themselves richer than ever, and hence he ability to raise those enormous quantities of metal which even t low prices have enabled them to pull through so well as they are—in some cases, as at Tincroft, without discharging a single ham. The wealth of the bottom of Dolcoath has long been known; his week at the Mining Institute stones of very rich tin ore have can shown from the 215 fm. level at Wheal Agar; and generally that district the mines are looking well. Of course, there are necessions, but they only seem to prove the rule that the deeper the his the richer is the lode.

East Pool adventurers did a wise thing for themselves this week then they decided to be content with a smaller dividend, and wipe if their debit balances. They will do a good thing for themselves well as for other people if they find out where the 20 tons of tin ent that they lost in the last three months. Nobody expects the roduce from the stamps to agree to a pound with the result of the lesson, but

content means all the difference between absolute loss and decent of the solution of the Royal C rnwall Geological Society, which is the oldest of the ind in the provinces, has held its anniversary meeting, under the said-ney of Mr. W. Warington Smyth, F.R.S. The proceedings were much scientific but of comparatively little practical interest. Mr. C. H. Collins, F.G.S., the first local geologist who has for many at dealt widely with stratigraphical questions, advanced reasons at believing that the rocks of West Cornwall are of Cambrian, or least of pre Silurian age, and thus discovered what may be a bone contention for many years to come. Mr. W. C. Borlase, F.S.A., ain called attention to the feasibility of the use of pure tin in the magacure of articles of domestic use, &c., and made out a very gole employed for such purposes than it is.

This week we have had the second annual exhibition of the Mining an attended by very marked success. From the first it has been also make it thoroughly practical in its aim and character, and the they have succeeded even beyond anticipations. The exhibit of in erest and utility, while means of social enjoyment were to Beaumont, M.P., has sent one of his drills (the Beaumont Col. Beaumont, M.P., has sent one of his drills (the Beaumont Col. Beaumont, M.P., has sent one of his drills (the Beaumont Col. Beaumont, M.P., has sent one of his drills (the Beaumont).

Beaumont, M.P., has sent one of his drills (the Beaumon $^{\text{L}}$

Percussive Drill) to the Show at Camborne. The drill shown has done, as appears by the ticket, a very large amount of work, and is still in perfect working order. It is justly considered that for practical purposes such an exhibit is far more instructive than a new machine.

new machine.

There is a good deal of distress in some of the mining districts just now, in spite of the relief afforded by emigration; and Mr. T. B. Bolitho, as Chairman of the Distress Committee, has convened a private meeting of the Chairmen of Boards of Guardians in the county of the larger owners of mineral property to consider if any and what means should be taken for relief. The meeting is to be held to-morrow at Camborne.

THE CLEVELAND DISTRICT.

THE CLEVELAND DISTRICT.

Nov. 6.—Since the date of my letter last month events of considerable importance have taken place in Cleveland. The steadiness which has been manifested in the district while commercial disaster has been happening on every hand is but another proof of the vigour remaining, now that the scum and froth is cleared away. Cleveland pig-iron makers have had a great deal to contend with since the announcement of the Glasgow Bank failure. Alarmist correspondents est afloat rumours affecting the stability of firms against whom not the faintest breath of suspicion had up to that time been raised—and the vagueness of the reports made them all the more damaging. At the same time, also, dark hints were circulated as to the position of one or two Yorkshire banks, having no more foundation than the fact that they had been involved in heavy losses two years since. All these rumours had a mischierous tendency, yet no unsteadiness has been manifested, and, though the banks are naturally more circumspect in their dealings now than they once were, it must be admitted that they are ready to give every legitimate accommodation. The Cleveland iron trade, which according to some was threatened with annihilation, has, on the contrary, assumed a much more important position than it has held for some time. The possibility that Cleveland iron can be converted into steel and sold at a price which will place it in the ranks of competition is already becoming almost a probability. If this point is reached, with the advantages of railway accommodation, a fine river, and a peculiarly happy situation, Middlesborough must become highly prosperous even amid the general depression. Careless workmanship did quite as much to deteriorate the condition of the manufactured iron trade of Cleveland as the slacking of the general demand. And now, with the experience of past mischances, manufacturers pay close attention to their work, and pig-iron makers practice the closest economy. Altogether the district is on a hopeful basis. T

MAKE OF CLEVELAND PIG-IRON.
Port of Decrease upon September, 1878 ... 165,695 167,160 Increase upon September, 1878 1,4 SHIPMENTS FOREIGN OF FIG-IRON FROM THE PORT OF Decrease upon October, 1877 Decrease upon September, 1878 5,377

Increase in stock in public stores upon September, 1878 4,341
Increase in stock in makers' stores upon September, 1878 1,728
* In N.E.R. Co.'s stores, 21,498 tons; in Messrs. Connal and Co.'s stores, 68,690-68,690-8.

These figures show a state of matters which under the circumstances is far from discouraging, the actual increase in stocks being only 690 tons. When the amazing fall in the price of Scotch iron is taken into consideration it will be seen that Cleveland cannot expect to send as much iron to Scotland as was formerly the case. The small increase in stocks is, therefore, a very light matter.

A very important concession has been made by the North-Eastern Railway directors to the trades of Middlesborough and district. About three weeks since an influential deputation waited upon the directors, and requested that they should make a rebate of 7½ per cent. upon the present freightage rates. This request has been considered by the directors, and they have replied in a letter signed by the secretary, as follows:—"The directors were assured that efforts were being and would continue to be made with all parties interested, including the owners of royalties and lothers, to make concessions so as to reduce the cost of production of pig-iron in the North-Eastern district, and that in asking the North-Eastern Railway Company to consent to the reduction in their present charges as the reduction was sought for only as a temporary measure, and in the belief that it would tend to strengthen and maintain the present trade of the district. The directors under the circumstances above enumerated are prepared as an experiment to make a further allowance from November 1 to April 30 next of 7½ per cent. on the same traffic as is now subject to a similar rebate." It should be stated that about three years ago a reduction of 3½ per cent. on the rates then charged was made, and that is the rebate referred to in the letter just quoted. At one time the freighters of the district were exceedingly wroth with the r cular was issued by them about a fortnight ago calling a meeting of the Iron Manufacturers' Association for the purpose of discussing the wages question. The result of that meeting was a reduction of 5 per wages question. The result of that meeting was a reduction of 5 per cent. on ordinary wages and 6d. per ton on puddling was demanded. Happily there exists in this district a Board of Arbitration, composed of an equal number of representatives of the employers and of the operatives. All questions in dispute between masters and workmen are submitted to the board, and are generally arranged without any serious dispute. Immediately upon the announcement of the action taken by the employers a meeting of the standing committee of the Board of Arbitration was called, and the work-man's representatives, expressed their willingeness to submit the men's representatives expressed their willingness to submit the question to arbitration. A meeting of the full board was held two or three days since, when Mr. David Dale, of Darlington, who has acted in a similar capacity on previous occasions, was unanimously requested to officiate as sole arbitrator. Mr. Dale has fixed Nov. 16

as the day on which he will hear the cases of both masters and workmen. Iron shipbuilding has been fairly well kept up during the
month, and several very fine vessels have just been launched. The
engineering trades are very well employed, and I hear of some good
orders which are likely to come to the district. The South Skelton
Mines, which belong to the trustees of Messrs. Thomas Vaughan and
Co., in liquidation, and which were closed for some time, have now
been re-opened, and are likely to be kept in full work. The Liverton Mines, belonging to the Liverton Ironstone Mining Company, in
liquidation, are to be offered for sale, with all their appurtenances
on Tuesday next.

REPORT FROM NORFH AND SOUTH STAFFORDSHIRE.

Nov. 7.—Curtailment of production, especially in the pig-iron trade, marks business just now. The district through less is doing than was the case some little time back. There are exceptions to this state of things, but they are few. The puddlers at the Round Oak Ironworks of the Earl of Dudley commenced the week's work on Monday morning. This is a circumstance which has not occurred, perhaps, for two or three years past, the forges having been generally started on the Tuesday or Wednesday. The number of blast-furnaces blowing is set down at about 42, which is smaller than for many years past. Prices of raw and finished iron are without change.

The event of the week is the adjourned conference of representative colliery owners and miners' delegates and agents, which was held in private at Dudley on Tuesday. Mr. E. Fisher Smith again presided. There was a full attendance of operatives, but the attendance of employers was small, but influential. The men soon told the masters "it was impossible to convince the men to work nine hours a day." The masters then said they had nothing further to communicate, and the interview terminated. The coalowners, however, remained in consultation to decide, it is thought, what action shall now be taken. Until it becomes known what course the masters have resolved upon the coal trade, and indeed to a great extent the iron trade also, remains unsettled. The men have called a great conference of all the surrounding localities to be held in Wolverhampton on the 14th inst.

Wages matters have not been long in taking a definite shape in the Cannock Chase district. A joint conference of the coalowners and miners of that part of South Staffordshire has been held at Birmingham, and after a prolonged discussion the men were informed that in order to meet the lengthened depression in trade a reduction of wages and an increase of hours were absolutely necessive.

reduction of wages and an increase of hours were absolutely necessary. The owners stated that they were prepared to continue working under the Birmingham agreement providing that the maximum and minimum clause should be abolished, and that the hours should be extended from eight to nine per day. The delegates promised to lay the proposal before their constituents, and to convey the decision of the miners on the lith inst. It was arranged that the price should continue working on the understanding that that the pits should continue working on the understanding that whatever terms might be agreed upon should date as from the

whatever terms might be agreed upon should date as from the 9th instant.

On Wednesday an important meeting of the Mines Drainage Commissioners was held in Wolverhampton. The chairman delivered an address dissecting the expenditure of the commission during the past year. The amount expended on surface works during the twelve months had been 18,658/L, and there was required to complete the works 38,850/L. Mines drainage rates had been assessed to the total amount of 81,154/L, and there had been spent on mines drainage account 128,415/L. The Tipton Committee proposed to buy the Gospel Oak pumping-engine of Messrs. Aston and Grangebrook for 5000/L, but after much discussion the proposition was, upon the motion of Mr. Fisher Smith, referred back to the committee. The annual election of commissioners took place on the same day, when the retiring members were re-elected.

A draft mines drainage award for the district of Old Hill has just been made by the surviving mines drainage arbitrators. It is set forth that a rate will be required of 3d. per ton on fire-clay and limestone, and 6d. on ironstone, coal, slack, &c. The mines on the south side of the River Stour, and the mines in the Cradley Trough, together with the Saltwells and Dudley Woods collieries, are totally exempted from payment. In the cases of three other collieries graduation is allowed. The draft award is subject to appeals.

A slightly better trade is doing in North Staffordshire this week, but prices remain very low.

"Our competitors at home and abroad" was the title of a paper

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"Our competitors at home and abroad" was the title of a paper read before the South Staffordshire Mill and Forge Managers' Association, by Mr. Wm. Farnworth, manager to Messrs. E. P. and W. Baldwin, ironmasters, of Wolverhampton and Stourport. Severe competition at home was experienced, he said, from Cleveland and the West Coast, whose freightages to London and Hull, and Liverpool, and to leading continental ports were so very much lower than were the freightages from South Staffordshire to the same places. From Belgian and German ports iron was being sent into the Thames and the Humber at one-third the money it cost to convey iron from Wolverhampton to London and Hull. The competition of steel, it was pointed out, was serious, and threatened such common iron as was used for girders, as for such high class iron as was used for sheets, for stamping and turning, plates for boiler making and shipbuilding, and bars for working into anchors and the like. At so low a price were the Belgians now selling iron that it was pointed out that latens were being sold in Hull at 9% a ton, though it cost 10s, a ton to deliver them there from the Belgian works; but Belgium had the advantages of lower wages from the ore to the finished sheet, and the workmen were content to labour from 6 on Monday morning till 12 on Saturday night. The prospects were discouraging so long as short hours and high railway tariffs were kept up.

LAMENTABLE ACCIDENTAT SANDWELL COLLIEBY—Two Mining

till 12 on Saturday night. The prospects were discouraging so long as short hours and high railway tariffs were kept up.

LAMENTABLE ACCIDENT AT SANDWELL COLLIERY—Two MINING ENGINEERS KILLED—An accident of an exceptionally distressing nature happened on Wednesday at Sandwell Park Colliery, resulting in the death of Mr. George Arnold and Mr. William Barker, members of the North Staffordshire Institute of Mining and Mechanical Engineers, then paying a visit to the colliery. The members of the Institute were taking their customary annual excursion, and had arranged to visit Sandwell Colliery in the morning, and the proceed to the open workings of the Earl of Dudley at Claycroft, Coseley, and his lordship's Lye Cross pits at Rowley, but, owing to this unfortunate occurrence, the remainder of the programme was of course abandoned. On arriving at the colliery about half past nine o'clock, the party, numbering apwarls of 09 gentlemen, was met by a departation from the South Staffordshire and East Worcestershire Institute of Mining Engineers, consisting of the president, Mr. William North (Mayor of Dudley); the vice-president, Mr. John Field, vice chairman of the board of directors of the Sandwell Company, received the visitors in the absence of Mr. James Bissell, the chairman of the company. After examining the surface plant and machinery the party descended the main winding shaft, and inspected the underground workings, consisting of about four and a half miles of roading in the Tenyard coal. About twelve o'clock the party commenced to ascend. One detachment of eight gentlemen had been safely drawn up to the surface, and eight other gentlemen, leudning Mr. Arnoll and Mr. Barker, then entered the cage. Scarcely had the cage started—the engine having only made one stroke—when Mr. Barker, it is supposed, became giddy, and losing his balance slipped off the platform. In doing so he grasped Mr. Arnold, who was near to him, and that gentleman was drawn with him, and both fell to the bottom of the shaft, a distance of about

Arnold, who was 43 years of age, was a wagon builder belonging to the Cliff Vale. Wheelworks, and resided at Cliff Vale, while Mr. Barker was an engineer connected with one of the largest engineering firms in the north of the county, and

REPORT FROM NORTH WALES, SALOP, AND CARDIGAN.

REPORT FROM NORTH WALES, SALOP, AND CARDIGAN. Nov. 7.—It is rumoured that Lord Penrhyn has been offered by as me London gentlemen one and a quarter million of money for the Penrhyn Slate Quarries—an offer that, notwithstanding the present condition of the slate trade, is not likely to be accepted. The Rhiwarth Slate Quarry, Llangynog, one of the oldest, and in some respects one of the best, in North Wales, has changed owners. It had been valued for ordinary business transfer, by three separate slate quarry authorities, at from 20,000\(dots\), to 3,00\(dots\), its yearly profit having of late been, it is said, 200\(dots\), with great capability of extension. Such, however, is the lack of enterprise in the country that a local engineer has succeeded, under mortgage exigencies, in buying it for a client for the sum of 400\(dots\). The scheme of a tramway to Llangynog, to which I have referred in recent reports, is now to be placed before the public. Of the 22 miles of land it will traverse 10 belong to Sir Watkin, who will render every facility in his power for the to Sir Watkin, who will render every facility in his power for the completion of the undertaking.

Two colliers from Plas Kynaston Colliery have been fined by the

Two colliers from Plas Kynaston Colliery have been fined by the Wrexham magistrates for unramming charges that had missed fire. No improvement can be recorded in the Coal Trade. The aspect of the collieries and iron works in South Shropshire is very depressing—chimneys without smoke, motionless pulleys and machinery, unrepaired buildings, grass and rust almost everywhere.

I am obliged by the notice taken of my remarks in last week's report by a correspondent from Truro. One does not like to discourage enterprise, but I cannot help observing that there are many lead mines prominently before the public whose future could be tetched with tolerable accuracy. North Wales seems likely to increase largely its production of blende. Taking the supply discovered at Morfa Du, and the prospective supply from Aberllyn, its returns will figure largely next year. Of the value of the discovery at the first-named mine there cannot be two opinions. But for evidence of the quantity to be returned by the latter we must wait for a time. wait for a time.

Mr. Halliday has written a long and patriotic letter to the local papers on behalf of the establishment of a National Relief Fund for miners, which should be largely supported by the outside public. Meanwhile the miners' employers and practical friends of the miner are progressing with permanent relief funds, which are primarily beared or sulfrailist their. based on self-reliant help.

based on self-reliant help.

The Pant-y-Mwyn controversy waxes long and loud in the Journal. My only contribution to it is the expression of my inability to understand the extreme desire of the owners to pourtray to the world the great riches they have discovered, and the fact that notwithstanding this a partnership in these riches is so easily attainable. The lode has just been described to me as filled with carbonate of lime, with lumps of galenahere and there throughout it. Is this a true description?

TRADE OF THE TYNE AND WEAR.

TRADE OF THE TYNE AND WEAR.

Now. 7—There is little improvement to notice in the Coal and Coke Trades. Now that winter really has set in after a summer protracted far beyond the usual length, some impulse has been given to the house coal trade, and prices of best quality are likely to improve a little. There is no change in the state of the steam coal trade, and the works on the whole are moderately employed. Only some of the best collieries, such as Cambois, are near fully employed. The exports to North-Eastern Europe will now fall off, and a dull trade for the winter may be looked forward to. The proposed reduction asked for by the steam coal owners of 12½ per cent., and an addition of one hour per day to the working hours, of course occupies the attention of the men; there is little doubt that they will accept some reduction in the rates of payment, as their average wages at present amount to 5s. per day, with the addition of house and fire coal, but they will be greatly opposed to any addition to the working hours. It may be useful to glance at the surprising changes which have occurred in the coal trade during the past few years. In 1870 there was nothing sensational about it; collieries favourably situated were fairly remunerative, but others, on which large sumshad been expended, yielded only poor returns. Near the close of 1871 it became evident that a steady and rapid improvement had set in, and prices rose rapidly. In March, 1872, the miners received an advance of 10 per cent., and in March, 1873, total advances had been made of 50 per cent. on the rates of 1871. Soon after this the denand fell off, and reductions were made in wages as the price of coals fell. In the spring of 1874 10 per cent, was taken off the wages; in October of the same year there was a reduction of 14 per cent. Early in 1875 a reduction was made by the decision of Mr. Rupert Kettle of 10 per cent. In November of the same year another reduction was taken off on Jan. 31, 1876. Again, in October, 1876, there was a reduction of 7 pe

owing to the depression of trade.

In Durham it is evident that there is no substantial improvement in the Coal and Coke Trades, as works continue to be stopped. The old Durham Colliery, which has been constantly kept going until lately, is to be closed. At the Broomside Colliery, after a strike of five months duration, the men have accepted a reduction of 8 per cent, and gone in. The masters at the outset wanted a reduction of 10 per cent.

A movement has been in progress some time which has for its object the reduction of mines' rents, both coal and iron, and in some cases arrangements have been made for their reduction. During the coal famine many royalties were leased at exorbitant rates—in some cases 1s. 6d. per ton having been paid for coal mine rents. These are, of course, much too high, looking at the present selling price of coals and coke. The lessees of collieries are, therefore, clearly entitled to some relief on this score—6d. per ton is now amply sufficient, and in cases where leases have expired a reduction of the rent per ton and also the permanent yearly rent will be sought for; but it is, no doubt, the duty and the interest of lessors to grant relief in many cases at the present crisis.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

Nov. 7 .- The few shareholders in the Newport (Old) Dock Company who met to-day at Newport had not much cause for congratulation. Since the establishment of the Alexandra Dock (at which, by-the-bye, there is a talk of utilising the electric light), trade at the old dock has been falling off. There was no mention trade at the old dock has been faining out. There was no mental of any dividend in the report, and the sum of 6740l was ordered to remain to the credit of the general revenue account. It was stated that during the last few months trade had been improving a little, and also that negociations were going on with the Great Western Railway Company with a view of increasing the facilities afforded.

facilities afforded.

A new trade has sprung up. For some time a steamer, belonging to Messrs. W. Y. Edwards and Son, has been running between New York and Cardiff, and has principally been engaged in bringing live cattle to the latter port. The firm named have met with so much success that they have built another steamer, and are building a further one, to run between the same places. Thus South Wales has now direct steam communication with America.

Vice Chancellor Malins has consented to an application made in rethe Dynevor, Duffryn, and Neath Abbey United Collieries Company (Limited). His Lordship was asked to succion the leasing of the colliery to Mr. Moore for a minimum rental of 5000l, per annum—an arrangement which the majority of the debenture-holders had already approved of.

ready approved of. At the Ystradgynlais Petty Sessions Mr. Evan Foster, manager

of the Ystradfawr Colliery, has been charged with a breach of the Mines Regulation Act. He was charged, first, with not supplying the workings with an adequate amount of ventilation, and, secondly, with not causing a true report to be made daily as to the condition of the workings. On Sept. 6 an explosion of gas occurred, by which six men were injured. Three days after Mr. Wales visited the colliery, and found an accumulation of gas, which Mr. Fost-r admitted had been there since the month of June. A fine of 2l. 10s. was inflicted in each case, with costs.

was inflicted in each case, with costs.

At Mountain Ash it is rumoured that Messrs. Glasbrook and Co.
have purchased the minerals under certain lands in the parish of

have purchased the minerals under certain lands in the parish of Lianwoono, and that sinking operations will commence next spring. Nothing of importance can be stated with regard to the Abercane Colliery; there is believed to be a great disruption in the workings, and although operations are gone on with as quickly as psssible, it is not known when the bodies can be brought out.

No good news can be stated as regards the Iron Trade, and never did prospects look gloomier. There is scarcely any demand for any description, even at the low prices which obtain, and which some say will have to go still lower before business can be improved. Masters, however, will, to say the least, ponder over the matter carefully before they submit to lower quotations, seeing that prices are now, in most instances, unremunerative. Several works are only just kept on the move. The demand for rails is decidedly sluggish; that for bars is inactive, and the same remark applies with gish; that for bars is inactive, and the same remark applies with equal force to pig-iron. Clearances during the week have been mainly to Port Chalmers and Tarragona. The steel trade is fairly active, there being a moderately good demand for rails at late rate Tin-plates are quiet and unaltered.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Nov. 7.—Business at the ironworks in most parts of the county is still very dull, and the moderate demand there has been for pig fully justified the blowing-out of some of the furnaces recently. But it may be said that the Derbyshire pig has sold as readily as other qualities, although at, perhaps, a little less money than some. But the low price at which iron is being sold shows that it cannot be made to pay a profit, and, with the exception of Cleveland and Lincolnshire, it can be produced in Derbyshire at a rate as low as in other districts. A great deal of the ore used is brought direct from Northamptonshire, where it is worked close to the surfare, so that mining is out of the question, and although it has to travel a considerable distance yet the Midland gives a very reasonable rate. The consequence is that several of our ironmasters in the Chesterfield district and in the Erewash Valley prefer it to what can be raised at home. The Stanton Company, one of the largest we have, has leased some very extensive tracts of lund for working the ore at Wellingborough and other places, where last year was raised up-Nov. 7 .- Business at the ironworks in most parts of the county leased some very extensive tracts of 1 and for working the ore at Wellingborough and other places, where last year was raised upwards of 170,000 tons. The company is now engaged in making some very large additions to the old works at Hallam Fields, that it is expected will find work for several hundreds of hands. At Sheepbridge there is less doing than for a considerable time past, whilst the Staveley Works are less busy than they have been. Foundry material is still in comparatively moderate request, and there has been a considerable decrease of late in the number of hands employed. At the collisions there is more activity and the meether. employed. At the collieries there is more activity, and the weather has sharpened the demand for house coal. An increased tonnage is going to the Metropolis from the leading collieries, via the Midland, and prices are better than they have been. More is also being done with Bristol and the West of England, and, in fact, with most places where there is direct communication by railway. Steam coal has in no way improved, but if anything the consumption has declined, both locally and for exportation. Small coal is not easily sold, even when offered at a really low price, owing in a great measure to the depression which prevails in most of our manufacturing districts.

THE COPPER TRADE

Stocks in Europe:	Tons.	
Chiliores and regulus, Liverpool & Swansea (equal to fine)	3,998	
Chili bars in Liverpool		
Ditto Swansea	1.898	
Chili ingots in Liverpool	-	
Ditto Swansea	-	
Foreign copper (chiefly Australian) in London	6.401	
Ditto ditto landing	306	
English copper in London	50	
Chili bars and ingots and Barilla in Havre	9.117	
Other copper in Havre	530 =	= 89,848
Affoat and chartered from Chili to Europe (advised by mail):-	_	
Ores and regulus (equal to fine)	2.022	
Bars and ingots	5,961	= 7,983
Afloat from Australia (advised by mail):-		.,
Fine copper		321
Affoat and chartered from Chilito Europe (advised by cable):-	_	
Fine copper		3,400
Total		8 51.55

Leavenaut-street, Novemoer 1.

The suspension of payments by a firm who had large operations in this metal, and were supposed to have the control of enormous stocks, had the most depressing effect upon the market, and on its announcement the value of Chili bars dropped 2½. Per ton, and subsequently even lower rates were accepted. As sales were not pressed, and it became rumoured that the stocks would be protected, prices rose to 5%, but again fell to 5%, at which the market closes buyers. Australian neglected, and English dull of sale. We quote—Chili bars, 5%, 5%; Wallarco, 6%. 5%; rough, 6%; manufactured, 6%, to 7%; ore, 11s. 64. The imports and exports from January to September were, by the Board of Trade Returns—

ч	Trade Returns—						
	IMPORTS.	1878.		1877.		1876.	
	OreTons	77,830		82,104	*******	55,508	
	Regulus	25,115	*******	25,826	********	22.8 0	
	Copper EXPORTS.	30,692	********	30,520	********	29,330	
	Foreign raw	9,440	*******	10,631	*******	12,774	
	English raw	14,198	*******	7,787	*******	8,711	
	Manufactured, including yellow metal and brass	20,178	********	21,300	********	17,200	
	London, November 7.	_		FRE	NCH A	ND BMI	r

THE TIN TRADE.

During the first fortnight of October, under continued pressure to sell, values drooped until 52. los. was touched. At 53. large parcels changed hands, and the market being thus relieved, and buyers coming forward at advancing prices there was a rapid advance to 80., at which the market closes firm with buyers thereat. The fall during the month was in no way attributable to the statistical position, which has considerably improved during the past month, the most marked features of which are—visible supply reduced; consumption increasing (the average deliveries being 160) tons per month against 1500 tons per month interest year); London stock stands at the same figure as inst year, showing that during the past twelve months as much Straits and Australian have been consumed as have arrived. Australian production, about which so much interest centres, does not increase at the rate which some profess to believe. The shipments from Australia for England this year average 750 tons per month against 740 tons per month last year. As the year is drawing to a close a pretty correct estimate of the year's supply from this quarter can be formed, and from estimates we have received of the quantity available for November and December, we believe the total shipments will be rather under than over those of 1877. English was advanced to 65% for ingots. Below we give our usual statistics:—

advanced to 65/, for ingots. Below we give	our usua	l statistics	:-	
	1878.	1878.	1877.	1876.
	Oct. 1.	Nov. 1.	Nov. 1.	Nov. 1.
Foreign in LondonTons	9,999	9,296	9,263	7,750
Banca in Holland	1,661	1,240	948	637
Billiton in Holland	1,676	1,674	1,225	735
Afloat for Europe, Straits, advised by mail	1			
and wire	200	240	150	35)
Afloat, Australian ditto	1,950	1,9 0	1,400	1,900
Afloat, Billiton		1,100	1,100	1,120
Banca in Dutch Trading Co.'s hands	977	1,112	906	1,890
Banca afloat, by sailing vessels	130	512	393	140
Total	17,405			
November 7.		FREE	CH AND	MITH.

November 7.

Continued depreciation had occurred in copper for twelve months when October commenced, and as the price of Chili bars had reached 60%, it was thought by many that this metal at such a quotation was in a sound and lasting position, but from apparently unknown causes a continued receding of the market went on until 57%. 10s. only could be realised, and this only for limited quantities, when the sudden announcement of the suspension of a West Coast house, holding very large stocks of copper came upon the market as a great surprise; quotations immediately fell 2% to 3%, all round, but even at this reduction business was not easy, buyers being alarmed as to the position of the stocks held by the firm liquidating. Confidence was subsequently given to the market on its becoming known that a considerable quantity of bar copper had been arranged for privately, and for the moment the price was pushed up to 50%, but this fagure was never really the market value, and quotations very speedily receded to 51%, which is the present nominal value. English raw copper was weak throughout the pist month, and is still so with a very limited demand. For manufactured business was also very limited, but since the close of the month more demand has been reported.

The yellow metal trade continues depressed. The price of sheathing was reduced \(\frac{1}{2} \) d. per lb. on Oct. 22, but the demand has by no means increased since there duction. We subjoin our usual monthly statistics:—
The imports of copper into England for the first nine muths of the following years were—1874, 56,035 tons; 1875, 60,891 tons; 1876, 59,20; 1877, 69,411 tons; 1878, 66,131 tons. The exports for the same periods were—1874, 44,144 tons; 1877, 38,733 tons; 1876, 37,746 tons; 1877, 37,106 tons; 1878, 42,313 tons. The position from November 1, 1877, to November 1, 1878, was a follows:—

| Shock, including after

	P	rice	в.	Stoc	k on hand, and short			
						Advised by mail only.		
1877-November 1 £		10	0	Tons	31,454	fons 36,177		
December 1	63		0	*********	30,701	36,861		
1878 - January 1	66	0	0	**********	31,388	38,713		
February 1	66		0	**********	31,305	37,769		
March 1	65		0	**********	33,235	40,535		
April 1	63	10	0	*********	34,345	41,460		
May 1	63	0	0	*********	36,416	42,725		
June 1	64	10	0	*********	37,410	42,809		
July 1	64	0	0	**********	35,983	41,782		
August 1	61	10	0	**********	38,913	43,325		
September 1		15	0	**********	38,676	44,985		
October 1	60	0	0	*********	39,097	44,757		
November 1	57	0	0	*********	39,712			
the comparative position	18 8	t th	e s	ame date	of the p	ast four wasne with		
sent:—						Stock, including affoat		
	P	rice.			Stock.			
						Advised by mail only.		
1874 - November 1 £			0	Tons	21,957	Tons 26,516		
1875-November 1	82		0	** ********	23,549	32,535		
1876 - November 1	76	10	0	*********	25,740	33,476		
1877-November 1	65		0	********	31,454	36,177		
1878-November 1	57	0	0	***********	39,712			
The charters to Oct. 31, 18	78,	we	re 4	0,050 tons,	against	98 000 4		
eadenhall-street, London, N	love	mbe	r 7.	. Нк	NRY RO	GERS. SONS. AND CO.		
	_				_	AND CO.		
	-	_	_					
TEMPLE LEA	T	M	IN	E_SPEC	TAT. T	PEDODA		

Oct. 31.—During the past six months the mining operations have been confined to the Temple lode, which in a former report was described as of greater value, as far as developed, than either of the lodes in the company's grant. Three adit levels or tunnels have been extended into the mountain on this lode in a direction averaging about 179 to the court of wast. These levels are known as Year

been extended into the mountain on this lode in a direction averaging about 17° to the south of west. These levels are known as Nos. 1, 2, and 3. No. 1 being the lowest, is about 3 fms. above the bed of the River Rheldol. No. 2 is 6 fms. above No. 1, and No. 3 is 11 fms above No. 1. The lode as far as at present exploded appears to have an average and early uniform dip or underlie of about 1 in 6 south; its width varies considerably, and increases regularly as depth is attained.

No. 1—The distance d: 'ven in this level is 40 fms., of which 23 have been driven during the past six months. Although this level has produced no lead of value it has passed through a very fine lode, composed of quartz and carbonate of line, with clay-slate permeated with blende, copper, lead, and iron pyrites. A few fathoms further driving will bring the end of this level under the point where lead was discovered in the levels above, where a continuation of the course does may confidently be expected—in fact, during the past few days some fine stones of lead have been met with, clearly indicating the near approach to ore bearing ground.

of lead have been met with, clearly indicating site near approach to ore cannog ground.

No. 2.—The distance driven in this level is 54 fms., 18 fms. of which have been driven during the past six months, and for the latter distance has laid open a valuable course of lead that will on an average produce about 2 tons of ore per fathom; the present end of the level exhibits the lode equally good, and perhaps a little icher, than any other part of the mine, and as this level is the pioneer, or furthest driven, it is a very important point of operation, and its continuing productiveness will materially influence the future prospects and value of the property. A tramway has been laid down from the forebreast of this level to the crushing-mill house in order that the ores may be conveyed with all practicular dispatch and economy.

ductiveness will materially influence the future prospects and value of the preperty. A tramway has been laid down from the forebreast of this level to the crushing-mill house in order that the ores may be conveyed with all practicular dispatch and economy.

No. 3.—The total distance driven in this level is 38 fms., 22 fms. of which is the work of the past six months. The course of lead here is of a very similar nature to that in No. 2, and for a length of about 20 fms. has produced an average of 1 to of ore per fathom. In the present end of the level the lode presents a promising appearance, and is fully equal to the average value of the ore ground justed through by the level; a tramway has been laid down in the level for the expeditious removal of the ores and debris.

For the effectual ventilation of the mine, and for the more rapid extraction of the ores, a winze is being sunk by the side of the lode, which will communicate No. 3 level with No. 2; this is now sunk to a depth of 4 fms., and will be completed by the time it is calculated the dressing machinery will be erected and ready to work. In exploring the Temple lode two caunter or cross lodes have been intersected; although in this district cunter lodes are seldom met with, and still more rarely found to be productive, there is every indication of richness presented by one of these, upon which at a future time it is proposed to drive, not only that its value may be ascertained, but that the level may act as a cross-cut to explore the parallel lodes that are known to exist on either side of the Temple lode. In making the explorations by driving the different levels alluded to a little as possible of the ore ground has been broken, and no more lead than is aboutely necessary has been brought to the surface, it being considered desirable to postpone all straping operations till the dressing machinery is completed and ready to work. Of course, considerable piles of rich ore have assumulated at surface, the whole of which has been produced from the levels a

forward state of preparation, and will be completed and erected at as cary awas practicable.

A water-course has been made, partly by cuttings in the side of the monatila and partly by aqueducts, over a distance of 1416 yards of such capacity as to car vey an almost unlimited supply of water, that will not only give the necessary impetus to the water-wheels now erected and being erected but to any additions machinery that may at any future time be required for the purposes of the rise and the supply of water is obtained from the River Rheidol, and is brought to the dressing floors at a height of about 57 ft. above the river's bed at that poist. If dressing floors of the rise was to the size of the dressing floors by the tramway which has been laid down byte company. The weather, which for a long time was favourable for surface oper tions, has during the past few weeks been less so; the works are, however, so advanced that unless any unforseen circumstance should cour to cause day they may be expected to be completed in about three months. The development of the property during the past six months to a great extent confirms the farm able predictions of the last report as to the future welfare of the company.

MR. MACDONALD'S ADVICE TO THE SCOTCH MINERS.

SIR.—How long will it be before the working miners perceive the folly of Mr. Macdonald, and cease to contribute a portion of their hard-earned wages to the maintenance—nay, the luxuris of such a man. His advice is to diminish the production of coals ins, and in fact all commodities. Can be not recognize that this means such a man. His advice is to diminish the production of coals, its, and, in fact, all commodities. Can he not perceive that his mean lessened employment, and, of course, largely reduced wages? Why does he not tell the working men that cheaper production, not lessened quantities, must be the cure for the miserably depressed trade, which is patent to all? Why does he not tell them—"less do you no good, and, therefore, I shall cease to draw my handsom salary?" This would be a straightforward and honest course. Li us see what he will do.

AN EMPLOYER OF WORKING MES, London, Nov. 8. London, Nov. 8.

per ton. The monthly report states that the deep levels continuous open out in a most satisfactory manner, particularly the deep where the Nos. 3 and 4 lodes are developing some very profit ore ground, with every appearance of continuing for many father than the section of the mine being in entirely ground, and with something like 100 fms. of backs overhead stones in the proof levels have not of late been quite se profit. GROGWINION.—100 tons of lead were ground, and with something like 100 fms. of backs overhead, stopes in the upper levels have not of late been quite so produce as usual, but the manager expects that the new ground now be opened up will fully compensate for any falling off in the portions of the mine. Stringent economies are being effected the working expense; a further reduction of something like upper cent. in wages having just been effected at this mine, and also other mines under Mr. Kitto's management, which is, we also that the third reduction that has been made since lead began fall in value, so that when the much-hoped for revival does state the undertaking will be able to take full advantage of it. Mine wages in the district are now so low that their average we earnings amount to only about 17s. 6d. per man. With labour such a price, surely mineowners will greatly extend the detel are much cheaper than they have ruled for a very long periol.

EG Y

ISSUE

Nov.

His High buncil of the Pub an, Mr. 1 lessrs. De SUBSCR MONDAY, the 12th No The prices follows: anuary, 18 The first 1

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MINERS.

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RGYPTIAN STATE - DOMAIN MORTGAGE BONDS.

ISSUE OF £8,500,000 FIVE PER CENT. BONDS.

His Highness the Khedive of Egpyt, upon the proposition of his Jonal of Ministers and with the concurrence of the Commissioners in Public Debt, having issued a decree authorising the above John, Mr. Rivers Wilson, C.B., the Finance Minister of Egypt, has contracted with Messrs. N. M. Rothschild and Sons, of London, and Messrs, De Rothschild Brothers, of Paris, for the issue of the Bonds. SUBSCRIPTION LISTS will be OPENED in LONDON, on GONDAY, the 11th November, and will be CLOSED on TUESDAY,

pionDAY, the 11th November, and will be CLOSED on TUESDAY, the 12th November. The price of issue is £73 for every £100 nominal capital, payable is follows:—£5 on application, £15 on allotment, £20 on 16th inputy, 1879, £20 on 17th April, £13 on 19th May—£73. The first half-yearly Coupon, due on the 1st June, 1879, will be itached to the Scrip:—

Eyment in full may be made under discount at the rate of 5 per cent. per seam, on any Monday or Thursday after the scrip has been issued. The failure to pay either of the instalments will subject all previous payments hoteliare.

painted by selections of the last instalment, will be ex-elione. The bonds as soon as they are ready for delivery. He will be ex-led for the bonds as soon as they are ready for delivery. He will be in a selection of the selec

per pound sterning; and at Alexandria, at houses to be designated stations for the Bonds must be made in the accompanying form. In case ment should not require the whole deposit, the surplus will be returned; to deposit be insufficient to cover the first installment on the amount allotted, no required must be paid for the with.

so of no allotment being made to the applicant the deposit will be returned, it is of no allotment being made to the applicant the deposit will be returned, collowing is a translation of the decree mentioned above:—

he Khediwe of Ezypt. Having, under date of the 23rd of August in the year, accepted the resolutions contained in the report of the Committee of , and having signified our said acceptance to its Vice-President, Mr. Rivers, by our speech of the same day addressed to him and published in the ur Egyptien.

ry, and naving speech of the same day addressed to him and published in the cur Egyptien.

on-thering that the members of our family mentioned in the two lists supby us to the Committee of Inquiry have surrendered all their real property,
he same may be transferred to the State with the view of sfecting a settle
of the financial condition of the Government on a stable and equitable basis,
the proposition of our Council of Ministers, sanctioned by us, and with the
rence of the Commission of the Public Debt, have decreed and decree as

rence of the Commission of the Aubit Debt, have decrease and activities in the name of the above-mentioned members of our family, we y absolutely and in perpetuity transfer to the State all the real property begies them, and described in the third article hereof.

de 2nd.—A loan for a nominal sum not exceeding £8,500,000 sterling shall strated for in the name of the State.

gle 3rd.—This loan will be secured on the property transferred by our family State, and consisting of 425,729 feddans of lands and houses. The net rest the said lands and houses amounts altogether to £422,426 sterling per m, according to the estimate in the lists given to the Committee of Inquiry. the 4th.—In case the revenue of the said property should not suffice to meet mount required for the service of the loan, the deficiency will be covered by senal revenues of the Government.

contrequired for the service of the loan, the deficiency will be covered by leaf revenues of the Government.

Leath.—Our Council of Ministers is hereby authorised to agree to and make Finance Minister a formal mortgage on all the property transferred, as it is the most of the contractors of the loan.

Leath.—In order further to secure the said loan, a Special Commission will set to administer the said property. The Commission will be composed of nembers, an Egyptain, an Englishman, and a Frenchman; and it shall be the direct control of the Council of Ministers.

Leather the said to the control of the Council of Ministers.

Leather the said to the control of the Council of Ministers.

trovernments.

unct one of the said Administrators will be as follows:
a) To manage the property.
b) To collect the revenues.
c) To remit all the net revenues to the contractors of the loan.
le lith.—Our Finance Minister is authorised to settle with the contractors most of the loan, and to arrange with respect to the application of the evenplus revenue of the said property.
le sth.—Our Finance Minister is charged with the execution of this decree.
nat Cairo, this 26th day of October, 1873.
(Signed) ISMAIL.

tick sth.—Our Finance Minister is charged with the execution of this decree. we at Cairo, this 26th day of October, 1878.

(Signed) ISMAIL.

(Countersigned) The President of the Council of Ministers, NUBAR. is following letters have been addressed to Messre. Rothschild.

Sie Julian Pauncefore to Baron Rothschild. London.

3-I am directed by Lord Salisbury to inform you that the French Minister foreign Affairs, after communication with the house of M.M. Rothschild in is, has proposed to Her Majesty's Government that the Daira lands recently nedered by the family of the Viceroy, which are to be hypothecated in security nedered by the family of the Viceroy, which are to be hypothecated in security as a Styptian Loan, shall be managed by three persons, one of whom the an Egyptian, and the other two shall be nominated, one by the English case by the French Government; and that the rents of the said land shall be ested and remitted to Messrs. Rothschild, so far as may be required to keet and sinking fund on the Loan; and I am to say that Her is a second to the same of the said and the sections a security that the manager so nominated shall not be divested of functions without their previous consent.

I am, Sir, your most obedient humble servant, (Signed) Julian Pauncefore.

M. Waddington to Baron Rothschild, &c.

M. Waddington to Baron Rothschild, Pajis.

L. Rothschild, &c.
M. Waddington to Baron Rothschild, Paris.
Paris, le 28 Octobre, 1878.

m L. Rothschild, & D.

M. Waddington to Baron Rothschild, Paris.

Paris, le 28 Octobre, 1878.

Bre des Affaires Etrangères, Direction Politique.

sieur le Baron,—En vertu de l'entente établie entre le Gouvernement de

Britannique et nous, les domaines dont le Khedive vient de faire abandon,

santie de l'emprunt qui d'esire contracter, doivent etre administres par

samission spéciale composee d'un delegue Français d'un Anglais, et d'un

santie de l'emprunt qui d'esire contracter, doivent etre administres par

samission spéciale composee d'un delegue Français d'un Anglais, et d'un

santie de l'entre et convenu, en outre, que les deux premiers seraient designe
eux Gouvernements respectifs. Cette Commission serait chargée de perce
sir revenus des biens que le Khedive a cedés, et de les remettre à MM. de

schild jusqu'a concurrence de la somme nécessaire pour le service des in
set de l'amortissement de l'emprunt dont il s'agrit.

I l'honneur de vous faire savoir que l'accord entre le Gouvernement Anglais

met et complet sur ce point, mais comme lut, nous déclinons toute responsa
relativement au paiement de l'Intéret et de l'amortissement de l'emprunt

ét. Notre seul but est de fournir aux creanciers de l'Egypte l'assurance que

missaire désigné pars nous ne pourra etre releve de ses fonctions sans notre

(Signed)

Kaddinant de Rothschild à Paris.

missire désigné pars nous ne pour se ment préalable.

(Signed)

(Baron de Rothschild à Paris.

Mr. T. V. LISTER to BARON ROTHSCHILD, London.

Foreign Office, October 28th, 1879.

Far information a copy of a telegram, dated yesterday, which has been replaced in the property which has been ceded by the members of the first affinity of the Egyptian Government.—I am, Bir, your most obedient kestrant,

(Signed)

T. V. LISTER.

he's family to the ngy process of the department of the new process of

Asha requested that the following may be communicated to Mr. de 1—
1of runi property ceded by Princes and Princesses of Khedivial family an Government, 425 729 feddan 10 kirats 12 sahm; amount of urban property ceded, 16 buildings, according to following letter from Cadi of Cairo:—
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che, le ler Zihadeh, 1295. Le Cadi du Caire,

e that du Caire,

we have been legalised by the Chef de Division, Ministry of Justice, and
Fachs, and proves that all the formalities required by Musaulman law
all proprietors does not consider with, and that the Government
all proprietors die whole of the property, with the exception of the
as mentioned in the letter as being mortgaged, the legal cession of which
use receive presence of the creditors.

use receive from the Commissioners in excess of what may be required
the may be applied in the redemption of the bonds. The proceeds of any
in London to be applied solely in the redemption of the bonds. The
be redeemed by purchase if under par, otherwise by drawings at par,
tit, Sta November, 1578.

FORM OF APPLICATION.
EGYPTIAN STATE DOMAIN MORTAGE BONDS.

EGIPTIAN STATE-DOMAIN MORTAGE BONDS.
of \$3,500,000 (Eight Million Five Hundred Thousand Poznds Sterling)
to Menrs. S. M. Rotheolild and Sons.
TEMER,— request that you will allot to £ , say poun-

SHROPSHIRE.

VALUABLE FREEHOLD ESTATE, called MEADOWTOWN,
In the parish of Worthen and county of Salop, situate about two miles from
Worthen, four miles from Minsterley, and twelve miles from Shrewabury,
containing 55 A. 2 R. 12 P., in the occupation of Mr. Abraham Davies, WHICH WILL BE SOLD, BY AUCTION, BY

WHICH WILL BE SOLD, BY AUCTION, BY

MR. WILLIAM HALL, at the George Hotel, Shrewsbury, on

Mr. WILLIAM HALL, at the George Hotel, Shrewsbury, on

Mr. Monday, the 18th day of November next, 1878, at Two o'clock in the

afternoon, and subject to conditions, and in Two Lots.

Lot 1.—All that FARM HOUSE, with buildings, fold, garden, meadow, pasture,
and arable land, containing altogether about 49 A. 3 R. 20 P., in the occupation of

Mr. Abraham Davies.

Lot 2.—All that piece or parcel of pasture and arable land called HILL PIECE,
containing about 6 A. 2 R. 33 P.

The minerals under the whole of the property (except Lot 2) are leased to Major

Brown and others for a period of 21 years, from the 25th day of March, 1875, at a

royalty of one-twelfth, and a minimum or dead rent of £10 per annum. Great

progress at a considerable cost has been made towards proving the land, and has

resulted in the discovery of two very promising lodes, called the east and west

lodes, the latter of which is believed to be the western extension of the Great

Snailbeach lode, and where cut through it is at least 16 ft. wide, composed largely

of pure carbonate of lime, spar, gossan, &c., with beautiful specimens of lead ore

and blende. These highly favourable indications justify the opinion that a rich

and valuable mine is here in process of development.

The timber will be included in the purchase.

Particulars, plans, and conditions of sale may be had of Messrs. Howes and

PERCYAL, solleitors, Northampton; Mr. WILDING, solicitor, Montgomery; also

of Mr. RAMER, land agent, Montgomery; and the Auctioneer, Shrewsbury (at

whose offices the above lease may be seen), and at the place of sale.

DART INTEREST in SPLENDID SILVER MINE FOR SALE

PART INTEREST in SPLENDID SILVER MINE FOR SALE AN INTEREST WILL BE SOLD FOR A SMALL SUM OF MONEY.

Address, Herbert C. Jones, Barrister, Toronto, Canada.

HORIZONTAL ENGINE.

A STRONG, WELL-FINISHED ENGINE 121 inch cylinder, 2 feet stroke, with fly wheel, wrought crank shaft, 5 inch diameter, governor, and massive box bed.

Price £76.

ALEXANDER SMITH. ENGINEER, DUDLEY.

H.P. PORTABLE STEAM ENGINE, with link mo ion reversing gear, ready for delivery; also gear to wind and pump.

A 9-h.p. VERTIOAL STEAM ENGINE, with link motion, reversing gear (winding drum if required).

A 6-fs. PAN MORTAR MILL, VERTICAL ENGINE and BOLL 12.

Apply to— BARROWS AND STEWART, ENGINEERS, BANBURY.

THE FRONGOCH MINE (LIMITED).

TOTAL SALES OF LEAD ORE TO PRESENT DATE, £530,945. Capital £25,000, in 12,500 Shares of £2 each. FIRST ISSUE 11,000 SHARES.

The company is fully registered under the Companies Acts,
with Limited Liability.

BANKERS—THE ALLIANCE BANK (Limited), London.
SECRETARY (pro tem.)—MR. H. VERDEN.

OFFICES (pro tem.)—14, GREAT WINCHESTER STREET, LONDON, E.C.

Notice is hereby given, that the WHOLE of the FIRST ISSUE of 11,000 SHARES have been SUBSCRIBED FOR, and are now duly allotted.

Work at the mine is in active progress under the direction of Mr. J. Kitto.

By order.

THE

LAST CHANCE SILVER MINING COMPANY OF UTAH (LIMITED).

FINAL ISSUE of DEBENTURES, of £10 each, bearing interest at 15 per cent. per annum.

ONE HUNDRED AND FIFTY are now OFFERED for SUBSCRIPTION. £3 payable on application, £3 on allotment, and the balance two months after allotment.

Efficient machinery is now erected and in thorough working order, and from the latest advices received from the Chairman at the mines will be raising ore within a very short time.

From the recent discoveries of gold in the adjoining mines, now being worked with great success by large Californian capitalists, and which veins exist in these mines, the Chairman is confident of speedy and great results.

The present issue is for the purpose of furnishing winter supplies.

The debentures are fully secured, being a first charge on the mines and other property of the company.

Forms of Application and full information can be obtained on application to the Secretary, at the offices of the company, 20, Great Winchester-street, London, E.C.

The DEBENTURE LIST WILL CLOSE on THURSDAY, the 14th November,

RICHMOND CONSOLIDATED MINING COMPANY (LIMITED).

44, Coleman-street, London, 4th November, 1878.

TO THE SHAREHOLDERS OF THE RICHMOND CONSOLIDATED MINING COMPANY (LIMITED).

TO THE SHAREHOLDEES OF THE RICHMOND CONSOLIDATED

Mining Company (Limited).

Notice is hereby given, that an EXTRAORDINARY GENERAL MEETING of the Shareholders of the Richmond Consolidated Mining Company (Limited) will be HELD at the City Terminus Hotel, Cannon-street, Loudon, on WEDNESDAY, the 13th day of November instant, at Twelve o'clock at noon, to receive the Report of the Board as to which of the recommendations of the committee they have carried out, and their reason for having deferred action on the remainder, if any; and to receive and take into consideration the reply of Mr. Edward Probert to the Report of the late Committee of Investigation; and for such other purposes as are set forth in the resolution adopted at the Extraordinary General Meeting of Shareholders held on the 2nd July last.

And notice is hereby further given, that in compliance with a requisition in writing, signed by a number of persons who, as registered members of the Rishmond Consolidated Mining Company (Limited), hold not less than 2000 shares, or £10,000 stock, an EXTRAORDINARY GENERAL MEETING of the said Company will also be HELD at the place aforesaid, on the same 13th day of November, at One o'clock in the afternoon, or as soon thereafter as the business of November, at One o'clock in the afternoon, or as soon thereafter as the business of considering and, if deemed desirable, of passing the necessary resolutions under Article 86 of the Articles of Association of the company, for removing Meessar. Anthony Pulbrook, Colonel Frederick George Steuart, and Dr. Augustus K. Maybury, or any one or more of them, forthwith from the office of Director of the said Company, and appointing by an ordinary resolution other persons or another person in the stead of all or any of the person removed; and to adopt such other resolutions with respect to the ashject matter of the said requisition as may by the said Extraordinary General Meeting be deemed to be within the scope or meaning of this notice or of the requisition, a copy whereof is se

HASSALL, NEW FERRY, CHESHIRE, MINERAL BROKER AND MINING SHAREDE

MINES INSPECTED AND REPORTED ON.

JACKSON. E.

Associate of the Royal School of Mines,
ANALYST AND ASSAYER.

Assays or Complete Analyses made of Copper, Silver, Lead, Zinc, Tin, an other Ores. 106, QUEEN VICTORIA STREET, LONDON, E.C.

HENRY WIGGIN AND CO.

NICKEL AND COBALT REFINERS BIRMINGHAM.

ENOCH AND RICHARD PARRY. MINING AGENTS AND SURVEYORS, MINSTERLEY, SHROPSHIRE.

Mines inspected and reported on at home and abroad.

THOMAS BROTHERS.

MINING SHAREBROKERS AND MINERAL SURVEYORS, STRAND CHAMBERS

STRAND STREET, LIVERPOOL.

HARPER. B .

MINING ENGINEER,
WILLSUPERINTEND OF EXAMINE AND REPORT ON MINES ON the PACIFIC COAST. Having had 14 years' experience in Gold and Silver Mining in Mexice, California, and Nevada. Government Mining Engineer for the Province of British Columbia.

Any communications may be addressed Room 49, Nevada Block, San Fran-isco, California.

CALIFORNIAN AND EUROPEAN AGENCY. 205, LEIDESDORFFST, SAN FRANCISCO, CALIFORNIA.

THIS AGENCY is prepared to make Investments in approved REAL ESTATE, MINING PROPERTIES, MINING STOCKS, &c, and INVEST MONEY IN FIRST-CLASS SECURITIES IN CALIFORNIA, and

to INVEST MODEL IN FARSAUGUS AND ADVICE to parties abroad who may the neighbouring States. Also to AFFORD INFORMATION and ADVICE to parties abroad who may contemplate or may have already invested in Enterprises on the Pacific Coast, and to take charge of Property, and to look after the interests of absentees. Preliminary enquiries demanding personal attention and examination must be accompanied by P.O. Order for El sterling.

EDWARD J. JACKSON, P.O. Box 738, San Francisco, Cal.

Wm. Lane Booker, Esq., H. B. Majesty's Consul, S. F.: the Honorable Leland Stanford, Ex-Governor of California and President of the Central Pacific Railroad, S. F.: the Right Rev. Wm. Ingraham Kip, D.D., LL.D.. Bishop of California; the Rev. William Vaux, Senior Chaplain U.S.A., Santa Cruz, Cal.: the Anglo-Californian Bank, San Francisco, California; the Anglo-Californian Bank, No. 3, Angel court, Throgmorton-street, London, E.C.

MEXICO, NEW MEXICO, ARIZONA, UTAH, NEVADA AND CALIFORNIA.

F. M. F. CAZIN, MINING AND CIVIL ENGINEER,

At BERNALLILLO, NEW MEXICO, U.S. OF AMERICA, At BERNALLILLO, NEW MEXICO, U.S. OF AMERICA, Has 24 years' experience in Mining and 8 melting, and 10 years' experience in American Business and Law, offers his services at moderate charges for Reporting on Mining and other Property in any of the above-named States or Territorics; gives correct, safe, and responsible advice as to securing full titles and possession; and, as to best mode of utilising the property, will assist in settling existing difficulties by compromise, and in disposing of developed mining property when held at real value; offers his assistance for securing undeveloped mining properties at home prices. As to care taken in reporting, reference is made to the Mining Journal Supplement, April 1, 1876, containing report on property of the Maxwell Land Grant and Railway Company; as to technical standing, to the prominent men of the trade—compare Mining Journal of Aug. 30 and Nov. 81, 1872, and New Fork Eagineer and Mining Journal, Feb. 28, 1874.

TO SHAREHOLDERS, AND INVESTORS IN AMERICAN MINES.

Mr. CLARENCE M. BUEL,

CONSULTING ENGINEER AND MINE BROKER 34, PARK ROW, NEW YORK.

Enjoying unequalled facilities, is enabled to furnish RELIABLE INFORMATION respecting MINES in AMERICA.

A detailed Special Report, based on inspection, furnished of any mine in the United States or Territories upon receipt of £5.

GOLD, SILVER, COPPER, IRON, COAL, MICA, and CORUNDUM MINES in VIRGINIA, NORTH CAROLINA, GEORGIA, and SOUTH CAROLINA for sale at bed rock prices.

N.B.—A SPECIAL REPORT may save hundreds of pounds.

INVESTMENTS IN CANADIAN PROPERTIES. HERBERT C. JONES, M.A., BARRISTER AND ATTORNEY, SOLICITOR IN CHANCERY, 39, ADELAIDS

TO INVESTORS.

The general rate of interest on Mortgage Security, in which only one-third of the market value of improved firms is taken, is 5% to 8 per cent. Investors furnished with the mortgage as well as if the property we e in England. Interest paid regularly every half-year. TO INVESTORS IN MINES.

The following properties dealt in: —

THE PIC COPPER COMPANY OF LAKE SUPERIOR.

THE GATLING GOLD AND SILVER COMPANY.

THE CRUSUS SILVER MINE.

All business with Canada promptly attended to. Manitoba Lands secured.



BICKFORD'S PATENT
OHAR GE IN

CHARGE CHARGE

BLASTING ROCKS AC.

CONTAINED A TIONAL EXHIBITION of 1862 and 1874, in London; at the IMPERIAL EXPOSITION, '' in Paris, in 1855; at the "INTERNATIONAL EXHIBITION" in Dublin, 1865; at the "UNIVERSAL EXPOSITION, 'I Paris, 1867; at the "GREAT INDUSTRIAL EXHIBITION," at Altona, in 1869: TWO MEDALS at the "UNIVERSAL EXHIBITION," VIGNAL, in 1873; and at the "EXPOSICION NACIONAL ARGENTINA," Cordeva, South America, 1872.



BICKFORD, SMITH AND CO.
BANK CHAMBERS, SOUTH JOHN-STREET, LIVER.
POOL; and 85, GRACECHURCH-STREET, LONDON,
E.C., MANUFACTURE BS AND ORIGINAL
FATENTE ES of SAFETY-FUES, having bees in
formed that the name of their firm has been attached to
the trade and public to the following announcement:—
EVERY COIL of FUES MANUFACTURED by them has TWO SPARATE
THREADS PASSING THROUGH THE COLUMN of GUNFOWDER, and BICKFORD, SMITH, AND CO. CLAIM SUCH TWO SEPARATE THREADS as
THEIR TRADE MARK.

THE WEEK.

THE WEEK.

SATURDAY, Nov. 2.—A large business was done in Eries and in Grand Trunk securities. The assessment on Errie shares is now an accomplished fact, and they left off firm, at 20½ to 20½, the gold bonds being 64½ to 65. Trunks are now being daily picked up in small quantities, owing to the low prices ruling. To-day there was an average rise of ½, the First Preference leaving of at 38, second at 24½, third at 11, and the ordinary shares at 6′. Unified were quoted ex div. to-day (53½ to 53½). Turks improved to 11. In mining shares a good business was done in New Zealand Kapanga, Sierra Buttes, Eberhardt, and Richmond.

Monnay.—Foreign mining shares received a large share of attention, and were actively dealt in. Enquiries were made also for several that for months pash have been neglected, such as Birdseys, Gold Run, Malpaso, Cedar Creek, and Blue Tent. New Zealand Kapanda rose to 25±, and Eberhardt to 4. Sierra Buttes were wanted at 1½, and Plumas Enreka at 2½. Colorado, 2½ to 2½ Don Pedro, 8s. to 10±; Rico Tinto, 2½ to 3; West Chiverton, ½ to 1½; Devon Consols, ½ to 1½; New Quebrada, 1½ to 1½; Exchequer, 4s. to 8s. In the miscellaneous market General Credit were wanted at 5½, London Steam boat at 5½, Hudson Bay at 10½. Bombay Gas at 5½, and Mercantile Bank of the River Plate at 2½.

TURSDAY.—Bombay Gas rose to 5½, being an advance of 20 per cent. since attention was drawn a few days back to the low price ruling. It is announced by the Hudson Bay Company that in the forthcoming report they will be unable to recommend the payment of an interim dividend; as none was expected the shares were not affected. The Georgetown Gas Company announce a dividend of 8 per cent. In mining shares Rookhope, Parys Mountain, Glenroy, and one or two others were offered at low prices, but there appeared to be no buyers.

WEDNESDAY.—Buying of Egyptian stocks was the principal business to day. The Daira Loan, speculators say, should be at 70½. the closing to-day was at 63½, 11 the tier. There was also an advance of 1½ in the Unif

The Daira Loan, speculators say, should be at 701.; the closing to-day was at 631, 11. better. There was also an advance of 11. in the Unified, to 543, ex coupon. In several quarters an improvement is looked for in the two specially secured Turkish loans of 1854 and 1871, present price being 731, and 531, respectively. The Defence Loan was quoted to-day 571, to 591.

THURSDAY.—Mercantile Bank of the River Plate shares now cost 2½ again, though at one time last week a few might have been ploked up at 1½. They should go to 3½ or 4. The usual interim dividend of 10 per cent. for the half-year will be paid this week by the Otago and Southland Investment Company. Some of these shares were pressed for sale at very little over par at the first announcement of the connection of the City of Glasgow Bank with some New Zealand concerns. The usual price is 1½ to 1½ (11. paid).

Faidday (Openiny).—The issue of the New Egyptian Five per Cent. Loan at no higher price than 73, has led to some sales of the Unified, Preference, and Daria, and there is an average fall of ½ per cent. Unified being now 64½, Preference, 724, and Daria, 61½. Grand Trunk retain yesterday's rise, the lat Preference being 37, 2nd 25½, and 3rd 11½. In mining shares Van and Great Laxey are rather wanted at 14½; Tankerville offered at 3½, and West Chiverton at 1. A fall of ½ has taken place in Great Western Raliway stock. Llanrwet, 1to 1½; Leadhills, 1½ to 2. — Two o'clock.—Sheffield stock is up to 74, or a vise of ½ per cent. Unified unchanged, but the Preference has risen to 73½. Turks are offered at 11, and the 1871 Loan has recoded to 52. Richmond mining shares are wanted at 10, and Ebsthardt at 3½. Very little doing in Colorado, New Quebrada. Port Philip, 9s. to 11s.; Malpasso, 2s. to 4s.; Malabar, 2s. to 4s.; Malabar, 2s. to 4s.; Avail, ½ to 34.— Four o'clock.—Shaffield has furthed advanced to 74½, and Midland and Great Western are also better. Colliery shares are thus quoted: Blison and Crump 2½ to 3½; Newport Aberoara, 454; Chapel House, 2½ to 3; C

ALEXR. WILSON & CO.,

VAUXHALL IRONWORKS. LONDON, S.W.,

MANUFACTURERS OF



THE VAUXHALL DONKEY PUMPS. THE EXCELSIOR DIRECT-ACTING PUMPS.

HIGH-PRESSURE SCREW ENGINES COMPOUND SCREWS ENGINES. PATENT SURFACE CONDENSING

ENGINES. PATENT PADDLE ENGINES. HOISTING MACHINERY.

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Boiler Tubes, Hydraulic Tubes, Sluice Valves, Hydrants, Stop and Draw-off Cocks, Boiler Mountings, Safety Valves, Pumps, &c.

FIRST PRIZE MEDAL,

ROYAL CORNWALL POLYTECHNIC SOCIETY, 1878

Rook DRILL Rate of Drilling, three to four times as fast as hand

HAND POWER

PATENT PNEUMATIC HAND & STEAM POWER STAMPS, CRUSHING ROLLS, PATENT PROSPECTING PLANT, &c.

T. B. JORDAN, SON, AND MEIHE, ENGINEERS AND CONTRACTORS, 63, QUEEN VICTORIA STREET, LONDON, E.C., AND AT

21 AND 22, LINDENSTRASSE, BERLIN, S.W.

AWARDED HONOURABLE MENTION AT THE PARIS EXHIBITION.

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GAUZE MANUFACTORY,

Established Hulf-a-century.

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A Show Case of Lamps is to be seen at Paris Exhibition, Class 50.

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Patent Round and Flat Wire Ropes,

From the very best quality of Charcoal and Patent Steel Wire. Galvanised Wire, Ropes for Ships' Rigging, Galvanised Signal and Fencing Strand, Copper Rope Lightning Conductors, Colliery Ropes and Steam Plough Ropes made from the best Patent Improved Steel Wire.

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Hemp, Flax, Engine Yarn, Cotton Waste, Tarpauling, Oil Sheets, Brattice Cloth, Wagon Covers, &c., &c.
UNIVERSE WORKS, MILLWALL, FOPLAR, LONDON.
UNIVERSE WORKS, GARRISON STREET, BIRMINGHAM
CITY OFFICE, No. 5, LEADENHALL STREET, E.C. All communications to be forwarded to the BIRMINGHAM ADDRESS.

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Insured against by the RAILWAY PASSENGERS ASSURANCE COMPANY, The Oldest and Largest Accidental Assurance Company.
The Right Hon. LORD KINNAIRD, Chairman.

SUBSCRIBED CAPITAL £1,000,000.

A fixed sum in case of death by acoldent, and a weekly allowance in the event of injury, may be secured at moderate premiums.

BONUS ALLOWED TO INSURERS OF FIVE YEARS STANDING.

BONUS ALLOWED TO INSURERS OF FIVE YEARS STANDING.

ACCIDENTS OCCUR DAILY! £1,230,000 have been paid as compensation.

Apply to the Clerks at the Railway Stations, the Local Agents, or

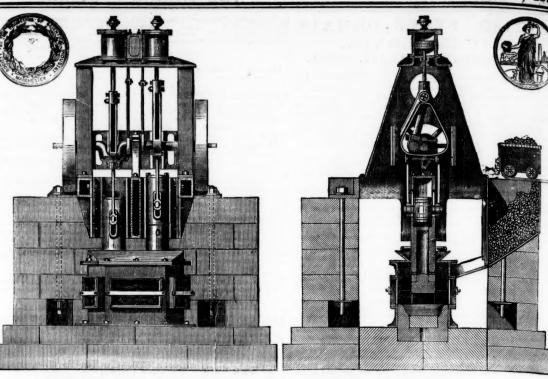
64, CORN IIILL, LONDON.

WILLIAM J. VIAN, Secretary.

DEBILITY AND NERVOUSNESS.

Free Edition, 152 pages, post free, in envelope, two stamps. The WARNING VOICE.—A Special Medical Book for Young Men, on the Cause, Consequence, and Treatment of certain forms of Debility and Nervousness, viz.—Mental and Physical Depression, Palpitation of the Heast, Noises in the Head and Ears, Impaired Sight and Memory, Indigestion, Palps in the Back, Headache, Piles, Constitution, Systems, Local Weakness, Muscular Relaxation, Nervous Irritability, Blushing, &c., resulting from Exhaustion of Nerve Dower, effect of Overwork, City Life, Worry, Brain Toll, Intemperance, and other abuses of the system.

Address, Dr. H. Banth, 8, Burton Crasent, London, W.C.



SHOLL'S PATENT DIRECT-ACTING PNEUMATIC STAMPERS,

For Pulverising Tin and Lead Ores, Gold Quartz, &c., SOLE MAKERS FOR CORNWALL,

HOLMAN AND

JUST FOUNDRY, NEAR PENZANCE, CORNWALL.

All objectionable features of "wear and tear" common to the original and existing Pneumatic Stamps (driven by belts) are removed in this patent, and leather glands and stuffing boxes entirely dispensed with, the pneumatic piston being reciprocated into the compressing chambers by direct-action from without. These double machines are guaranteed to be of the capacity of 36 ordinary heads of cam and lifter stamps, and engineers will at once see that, inasmuch as the power is directly applied to its work (without the medium of belts and other gearing), the minimum consumption of coal (all other conditions being equal) must be

the result.

The COST OF THESE MACHINES (including boiler) is about ONE-THIRD OF THE ORIGINAL CAM AND LIFTER

ROTARY STAMPERS SUPPLIED ON THE SAME PRINCIPLE, WITHOUT STUFFING BOXES OR GLAND'S, WHERE RUNNING GEAR EXISTS, OR WITH HORIZONTAL CONDENSING ENGINES AND BELTS TO DRIVE THEM, IF PREFERRED.

Also, SOLE MAKERS OF STEPHENS' PATENT PULVERISER. MINING AND OTHER MACHINERY CONSTANTLY ON SALE,

NEW AND SECOND HAND.

The "BURLEIGH" ROCK-BORING COMPAN

100, KING STREET, MANCHESTER.

RICHARD MOTTRAM, Secretary.

For the Sale of the "Burleigh" Rock Boring Machinery, and also for Sinking Shafts, Cutting Tunnels and Levels, and General Rock Blasting Operations by Contract. References permitted to

References permitted to—

Messrs. BOLCKOW, VAUGHAN, AND CO. (LIMITED), Middlesborough.

"THE DOWLAIS IRON COMPANY (LIMITED), South Wales.

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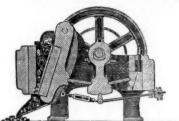
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Feb. 1876 Mar. 1878	24 :00 Combmartin, s-l, No 24 :00 Court Grange, s-l, C 15000 Cwm Brwyno, * l, C	orth Devon 9 7 Cardiganshire 1 0	0 1%	36
May 1878 Nov. 1876 Jan. 1876	15000 Cwm Dwyfor, c, s 5000 Ditto, 12½ per of 3000 Cwmystwith (New)	l, Wales 1 0	0 = 0 =	
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Nov. 18:8 1 Jane 1878	10.4 D'Eresby Mountain 1900 Denbigishire Cons 2000 Derwent, * l, Durha 9000 Dubby Syke, l, Durha	olidated, /* 3 0 m 4 0	0 2	30 40 1 2 11/4 11/4
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NOV. 18.0 3	4000 East Chiverton, I, B. 3000 East Craven Moor*, 500 East Goginan, I, Car 3000 East Roman Gravels, 3000 East Van I Il		0	78
Jan. 1878 1	Bood East Van, , Llanid 1722 East Wh. Lovell, t, I 10000 Elgar, * z-l, Cardigar	Helston 9 16 0	14	6s. 8d. 1/4 21/4
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uly 1878 8 Oct. 1875 12 Sept. 1878 14	Gawton, c, Tavistoc 000 Glan Clwyd, ''. Gw 000 Glenroy, 's.'. Isle of 000 Glyn, ''. Llanidloes 000 Gcginan, & Level No	k 4 5 6 yddelwern 1 0 0	34	36 36
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ly 18/8 250 ov. 1872 140 ne 1874 600	Didyweil, t, Salop Ditto, 10 per cent. pr Lead Era, t, Mold Levant, c, t, St. Just Lisburne Syndic., t, Ct Lisburne Syndic., t, Ct Livingstone Consols, t, Loveli, t, Wendron	2 10 0 10 4 6 ardigan 5 0 0	3 2	100
ot. 1878 512 ne 1878 2500 g. 1878 3000	O Livingstone Consols, t, 20 Loveli, t, Wendron 10 Llanrhaiadr, l, Montg 0 Llanrwst,* l, Carnarvo	omery* 2 0 0		1 1
			3 2 65 50	200
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	Du, z, g, s, Angle	sea 0 15 0	% ×	76 100 100
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1873 5000 1878 4000	New Wheal Emma, c, Bu North Cornwall, * 1. Corn	0 0	3% 243	8 10
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d. 10000 We	est Goginan. * Cardiganshi est Llangynog, s-i, Montg est Mary Ann, l, Menheni est Milwr, s-i, Flint est of England Granite Col st Pateley Bridge. * I. You	omery 2 0 0 36 ot 0 12 6 34	1/8 3/8	Stk. Lehi
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d. 1000 We d. 1000 We d. 3000 We	st of England Granite Corst Pateley Bridge,* !, Yor, st Roskear, !, s-!, b!, c, Carst Vor,* !, c, ars, Breage st Wheal Peevor, !, Redruced Agar, c, Illogan	mborne, 5 10 0	***	50 Peni 8tk. Penn 8tk. Ditto
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è, biende;	el, coal; e, copper; g, go	14 1	il, slate;	London:

b, blende; ci, coal; c, copper; g, gold; i, lead; s, silver; si, slate;
s-i, silver-lead; f, tin; s, zine.
Limited Liability Companies; † quoted on the Stock Exchange;
I have paid dividends.

IRON AND COAL COMPANIES

	Shares. IRON AND COAL CO	MPANIER
*	\$100 Abbet John	Paid,
	\$100 Abbot, John, and Co. [L.] 15 Albion Steel and Wire Co. [L.] 5 Alltami Colliery Co. [L.]	275 0 0 17
		5 0 0
	190 Ashbury Co. [L.]	90 0 0 85
1	10 Benhar Coal Co. [L.]	3 0 0 *
1	10 Bilson & Crump Monday Coll Co.	10 0 0 5½ 50 0 0 5½
1	60 Blaenavor Land Coal Co. [L.]	10 00 4%
1	00 Bolckow, Vaughan, and Co. [L.]	4 0 0 50 0 0
1	60 Bowling Iron Co. [L.]	50 0 0 8¼
1	80 Britannia Ironworks [L.]	25 0 0
1	3 Bagnall, John, and Bons [L.] 10 Benhar Coal Co. [L.] 50 Bilbao Iron Ore Co. [L.] 10 Bilson & Crump Meadow Coll. Co. [L.] 4 Blaen & Window Medical Co. [L.] 50 Blaenavon Iron and Steel Co. [L.] 50 Blaenavon Iron and Steel Co. [L.] 60 Bolekow, Vaughan, and Co. [L.] 60 Britannia Iron Co. [L.] 60 Brown, Bailey, and Dixon [L.] 60 Brown, Bailey, and Oo. [L.] 60 Brown, John, and Co. [L.]	40 0 0 8 70 0 0 11%
1	3 Cakemore, Causeway Green, L. Holt 100 Cammell and Co. [L.]. 20 Cannock and Huntington Coal [L.]. 10 Cardiff & Swansea St. Coal Co. [L.]. 10 Cardiff & Swansea St. Coal Co. [L.]. 11 Central Swedish Iron and Steel [L.]. 12 Chapel House Colliery.	
1	20 Cannock and Huntington Coal [L.].	
	10 Cardigan Steel and Wine Co. [L.].	9 0 0 4
	10 Central Swedish Iron and Steel [L.].	
	50 Charlton Iron Co. II.	
	50 Charles wedish Iron and Steel [L.]. 5 Chapel House Colliery. 50 Charlton Iron Co. [L.] 50 Chatterley Iron Co. [L.]. 61 Chillington Iron Co. [L.]. 62 Consett Iron Co. [L.].	
	Consett Iron Co. [L.] 1	
	1 Consett Spanish Ore [L.]	1 00 10% 11
	20 Darlington Iron Co. [L.]	0 0 0 87% 85
	5 Diamond Prothers [L.]	2 10 0 1 35
	10 Chillington Iron Co. [L.] 1 10 Consett Fron Co. [L.] 1 1 Consett Spanish Ore [L.] 2 20 Darlington Iron Co. [L.] 4 20 Darlington Iron Co. [L.] 1 21 Davy Brothers [L.] 2 22 Ebbw Vale Co. [L.] 2 23 Ebbw Vale Co. [L.] 2	0 0
	100 Fox, Samuel, and Co. [L.]	0 0 14 19
	20 Great Western Coal Co. [L.] (£1 returned)	0 0 2% 3%
	2 Gwyngwillim Colliery Co. [L.] 17	0 0
	15 Hopkins, Gilkes, and Co. [L.] 11 50 Knowles, Andrew, and Sons [L.] 11	
	10 Llay Hall Coal, Iron, & Firebrick [L.] 10 Littleden Woodside.	0 0 6 5
	50 Llynvi, Ogmore, & Tondu Co. [L.] 50	0 0 1
	5 Diamond Fuel Co. [L.] 2 23 Ebbw Vale Co. [L.] 2 10 Fox, Samuel, and Co. [L.] 8 10 General Mining Ass. [L.] (£1 returned) \$ 20 Great Western Coal Co. [L.] 17 2 Gwyngwillim Colliery Co. [L.] 18 54 Hopkins, Gilkes, and Co. [L.] 19 55 Enowles, Andrew, and Sons [L.] 17 5 Littledean Woodside Coll. Co. [L.] 50 50 Llynri, Ogmore, & Tondu Co. [L.] 50 10 Lydney and Wigpool Iron Ore [L.] 8 10 Marbella Iron Ore Co. [L.] 10 10 Marbella Iron Ore Co. [L.] 10	0 0 3 1 0 0 5 5 5 0 11 10
	10 Midland Iron Co. [L.]	0 0 11/
	10 Monkland Iron and Coal Co. [L.] 8	0 0 8 24
I	0 Nant-y-Glo and Blaina (8 p.c. pref.) 100	
	3 Nerbudda Coal and Iron [L. & Red.] 2	0.0 40 20
	10 New Sharlston Collieries [L.] Pref 20 10 Newport Abercarn Coal Co. [L.] 10	
	10 Northmeta. Coal, Iron & Wagon [L.] 8	0 0 4 44
	1 Norton Green Coal Co. [L.]	0 0 % 73
1	88 Palmer's Shipbuilding and Iron [L.] 28	0 0 151 15
:	38 Palmer's Shipbuilding and Iron [L.] 28 20 Parkgate Iron Co. [L.] 85 20 Patent Nut and Bolt Co. [L.] 14 20 Patent Shaft and Axietree [L.] 10 20 Patent Coal and Exercise 10	0 0 15 13
2	20 Patent Shaft and Axletree [L.] 10	0 0 1 9
6	Dhoni- Basson of Co. 163	0 0 14
	0 Rhymney Iron Co. [L.]	0 171/ 10/
1	0 Sandwell Park Colliery Co. [L.] 10 0	0 151/ 14
10	O Shotts Iron Co. [L.]	U 4 41
5	0 Shotts Iron Co. [L.]	0 15 14
24 50	0 Skerne Ironworks [L.] 20 0	0 24 23
21	6 South Wales Coal Co. [L.]	0
00	Staveley Iron and Coal Co. [L.] 80 0	0. 12 14
10	Bwansea Valley Steam Coll. Co. [L.]. 6 0	0 2% 33
50	Thames Iron Company	0
25 20	O	U 20 22 80
00 50 25 20 10 00 10	Vancouver Coal [L.] 60	0 8 8
50	Vickers, Sons, & Co. [L.]	10 12
10	W. Cumberland I. and Steel [L.] 20 0	
6	West Mostyn Coal [L.] (12 p.c.pref.) 5 0 0 West Swansea Colliery Co. [L.] 5 0 0	-
000	Whitehaven Iron Co. [L.]	= =
0	Ditto B. shares 28 0	3
	WAGON COMPANIES	

WAGON COMPANIES.

0	Birmingham Wagon Co. [L.]	10	0 0	151/	1
0	Ditto, 2nd issue	4	0 0	13/	. *
0	Ditto, pref., 6 per cent	10	0 0	1174	
0	British Wagon Co. [L.]	10	0 0	1174	1
ň	Gloucester (T.)	10			
'n	Gloucester [L.]	10	0 0	816	-
2	Ditto, 5th issue		0 0		
9	Met. Rail. Car. and Wagon Co. [L.]	- 5	0 0	. 134	
5	Ditto, pref., 6 per cent	2	0 0	36	
)	Midland	10	0 0	414	1
)	North Central Wagon Co	20	0 0	22	91
,	Rail. Car. [L.] (Oldbury)		0 0		7
,	Ditto, pref., 6 per cent		0 0		1
)	Sheffield Wagon Co. [L.]		0 0		7
•	Yorkshire Wagon Co. [L.]		0 0		1
		-		-10	1
					1
	TELECTABLE COMP	377	780		

TELEGRAPH COM	PAN	III	ES.		
"St." Anglo-American	. 100	0	0	89%	1
To Brazilian Submarine	. 10	0		64	
20 Direct United States Cable	20			121/	
10 Eastern	10			736	- 1
10 East. Exten., Australia and China	10	0	0	7	- 1
10 Great Northern	10			754	- 1
25 Indo-European	25	0	0	1814	19
10 Mediterranean Extension	10	0	0	214	3
8 Reuters	8				10
Stk. Submarine	100		2		233
10 West India and Panama	10	0	0	176	-
20 Western and Brazilian			0		
\$ 1000 Western Union, 7 percent. Mort. Bon	de #1	000			Ш

MISCELLANEOUS,

	MISCELLANEOUS,
	3tk. Atlantic and Great Western Leased
	Lines, Rental Trust 100 0 0 38
	25 Australian Agricultural
	35 Austral. Mort. Land and Finance [L.] 8 0 0 4%
	10 Avonside Engine [L.] 7 0 0 7
	8tk. Baltimore and Ohio, 6 per cent 100 0 0103
	10 Brighton Aquarium [L.] 10 0 0 7%
	5tk. Cent. of New Jersey Con. Mort 100 0 0 80
	8tk. Cent. Pacific of Calif., 1st Mort. 6 p.e. 100 0 0109
	25 City of London Real Property [L.] 12 0 0 2
	5 Diamond Rock Boring 4 10 0 3%
	15 English and Foreign Credit 8 0 0
	16 Fore Street Warehouse [L.] 14 0 0 9
	15 Foster, Porter, and Co. [L.] 10 10 0 19
	S Gen. Phos. & Chem. Works Co. [L.] 8 00
	1 Greenhill [L.] 1 00
	5 Kit Hill Tunnel [L.] 1 0 0
	17 Hudson's Bay Company 17 0 0 9%
	10 Huntington Copper and Sul. Co 9 0 0
	Stk. Illinois Central, \$100 shares 100 0 0 50
	Stk. Illinois & St. Louis Bridge, 1st Mort. 100 0 0 72
	8tk. Ditto, 2nd Mort., 7 per cent 100 0 0 30
	Stk. Illinois Cent. Sinking Fund, 5 p. cent. 100 0 0 98
	716 Imperial Credit [L.] 7 10 0 716
	- Ditto, Surplus Certificate
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1	10 1 10 10 10 10 10 10 10 10 10 10 10 10
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1	Stk. Ditto, Con. Sink. Fund, 6 p. ct., 1905 100 0 0 10 Stk. Boottish Aust. Investment Company. 100 0 0 100
1	Str. Bouttish Aust. Investment Company
1	10 Silber Light (ord. sh.) 10 0 0
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1	20 Suez Canal shares
ł	5 Ditto, Second Bonus Three per Cents 5 0 0 2%
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London: Printed by RIGHARD MIDDLETOF, and pall HENRY ENGLISH (the proprietors), at their offer, % STREET, E.O., where all communications are request addressed. - November 9, 1878.